



06 Dec 1963

## The Missouri Miner, December 06, 1963

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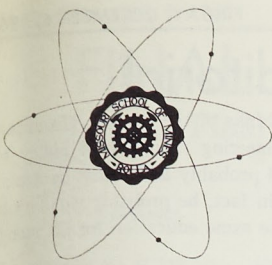
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NOVEMBER 22, 1963  
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# The Missouri MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

Final  
Examinations  
Schedule

SEE PAGE 3

VOLUME 50

FRIDAY, DECEMBER 6, 1963

NUMBER 11

## Student Council Discusses SU Expansion Plans

The business at the recent Student Council meeting included discussion and committee reports concerning such topics as the future Student Union Expansion Program, a new procedure for a newly formed organization to submit its constitution to the Student Council, and an addition to the Dean Wilson Loan Fund.

A committee, which had been formed to explore the interests of the student body in order to find what it sought most in a Student Union Expansion program, reported its varied findings to the rest of the Council. Among those interests displayed by both individual students and various organi-

zations were increased ballroom area, a theatre type auditorium, snack-bar expansion, more recreational facilities, offices for all campus organizations, and larger parking facilities.

During the meeting a motion was made and approved giving a nominal sum to the Dean Wilson Loan Fund, which provides low-interest, short-term loans to MSM students.

The Council announced that there will be a change of procedure for a newly formed organization to submit its constitution for approval. Instead of presenting its constitution directly to the council, the organization must first go to Dean Herschkowitz's office where it may obtain a check-list which gives the qualifications that must be displayed by the organizations and its constitution. Then the organization may submit its constitution to the Council.

## Distinguished Students Gain National Recognition

National recognition, in the form of selection to WHO'S WHO IN AMERICAN UNIVERSITIES AND COLLEGES, came to 35 MSM students last week. Recognition by this publication is one of the highest honors which an undergraduate can receive.

MSM recipients and their major activities include: Bill Bur-chill, Theta Tau president; William Crede, ROLLAMO editor; Doug Schellman, president of Blue Key; Dennis Meehan, president of Shamrock club; Dale Marshall, Student Council president; John Gladysiewicz, MINER business manager; Alan Zunkel, president of APO; Keith Bailey, football team and ASME president; and Gerald Kettler, executive committeeman of Student Council.

The selections also included Charles Campbell, president of the Inter-co-op Council; Rich

Schmidt, president of ASM; Al Buescher, treasurer of St. Pat's Board; Graham Sutherland, vice-president of the Student Union Board; Mike Devaney, business manager of KMSM; Charles Lyons, ROTC Legion of Valor award; Kenneth Hoelscher, Student Union Board; Jim Murray, president of Pi Tau Sigma; Bob

(Continued on Page 12)

## Rules and Regulations For Preregistration

### Timetable of 1963-1964 Spring Semester Preregistration

- Dec. 9 Seniors and graduate students will report to department to preregister.
- Dec. 10 Juniors will report to departments to preregister.
- Dec. 11 Sophomore whose surnames begin with A through L will report to departments to preregister.
- Dec. 12 Sophomores whose surnames begin with M through Z will report to departments to preregister.
- Dec. 13 Freshmen will report to the Registrar's Office to preregister.

1. If you are enrolled for the 1963-64 fall semester, you are expected to meet with your advisor during the preregistration period to select the courses you will be taking during the 1963-64 spring semester.

2. To preregister report to your department on the date shown on the timetable above to work out your spring schedule with your advisor. (In determining your class the number of hours of you will have at the end of this semester against the classification system on the inside front cover of this schedule.)

3. In your department you will be given your schedule card and credit card (if you are an undergraduate).

4. Select with your advisor's help the courses, sections, and meeting times for each course you plan to take.

5. The schedule card must be signed by your advisor (if you are a graduate student your schedule must also be signed by your department chairman). If you are

(Continued on Page 8)

## IFC Songfest Tonight in S.U. Hootenanny Part of Program

One of the highlights of the fall semester, the IFC Sing, will take place tonight, December 6, at 7:30 p.m., in the Student Union ballroom.

A total of 25 entries, thirteen choruses and twelve quartets, have been received for this year's Sing, and it promises to be one of the best ever.

Master of Ceremonies will be Ed Schmidt, vice president of the Interfraternity Council, and judges will be music directors from area high schools.

The competition is expected to be keen in both areas of singing, with Kappa Alpha out to repeat the sweep of both first place trophies they scored last year and the other houses determined to stop them.

While point totals are being determined at the end of the sing, a "Hootenanny" will be held, with the audience joining in on the singing. Winners of the Sing will be announced at the end of the "Hootenanny."

The music promises to be excellent, so with or without a date, come to the IFC Sing.

### IFC SING PROGRAM

- Theta Xi Chorus ..... "Thy Mouth Fair Maid Is a Rose Bud Red"
- Lambda Chi Alpha Quartet ..... "A Wassail Medley"
- Sigma Pi Chorus ..... "There Is Nothin' Like a Dame"
- Triangle Quartet ..... "Good News"
- Pi Kappa Alpha Chorus ..... "Navy Hymn 'Eternal Father'"
- Kappa Sigma Quartet ..... Medley: "Old Time Religion"
- ..... "I Do Adore Her"
- Delta Sigma Phi Chorus ..... "Where the Blue of the Night"
- Sigma Phi Epsilon Quartet ..... "The Last Month of the Year"
- Triangle Chorus ..... "Ride the Chariot"
- Alpha Epsilon Pi Quartet ..... "The John Birch Society"
- Beta Sigma Psi Chorus ..... "How the West Was Won"
- Sigma Pi Quartet ..... "You Are My Sunshine"
- Kappa Alpha Chorus ..... "Whiffenpoof Song"
- Pi Kappa Alpha Quartet ..... "Stagger Lee"
- Sigma Nu Chorus ..... "Elijah Rock"
- Delta Sigma Phi Quartet ..... "Chattanooga Shoe Shine Boy"
- Phi Kappa Theta Chorus ..... "Halls of Ivy"
- Kappa Alpha Quartet ..... "Exodus"
- Kappa Sigma Chorus ..... "The Damsel's Lament"
- Lambda Chi Alpha Chorus ..... "Little Drummer Boy"
- Sigma Phi Epsilon Chorus ..... "The White Snows of Winter"

FOLLOWED BY A HOOTENANNY

## "No Dormitory Rate Hike Next Year," Says Wilson

There has been a rumor spread over the MSM campus that dormitory rates will increase again next year. Mr. Jack Wilson, Housing Manager, ended this rumor in a recent interview when he said that there would be no increase for the first time in almost a decade.

Mr. Wilson also remarked about the 118-man dorm to be constructed south of Rayl Cafeteria in the near future. The original bids on the dorm was \$100,000 more than anticipated by school officials. All bids were rejected and the project will be rebid in 3 or 4 months. Due to delay caused by the high bidding, the dorms will not be ready for re-

sidence before September, 1965. These dorms will be similar in construction to the present ones, with a few improvements.

A third subject Mr. Wilson commented about was the inspection of off-campus housing which began in June, 1963, on a voluntary basis. Inspection is under the direction of Mr. Lester Harris, Housing Assistant. Residences are not listed by the school unless they are inspected and approved. A number of buildings required minor improvements, and Mr. Wilson feels that the owners cooperated very well. A few of the requirements are heating equipment to insure a temperature of at least 70 degrees F., adequate hot water, individual study tables, suitable lighting, the room cleaned at least once a week, a telephone for use by the students, and a minimum floor space of seventy square feet in a room occupied by one person or fifty square feet per person in a room occupied by more than one. Next school year all single undergraduate students, except those excused, will be required to live in approval facilities. Mr. Wilson promised that we will hear more about this at a later date.

The Housing Office is also making long-range plans for a new set of dorms with cafeteria facilities to be located across from Jackling Field. Hopes are that the Legislature will appropriate the money at the next session in order that the dorms can be completed by 1966. The Housing Office wants to make sure that as the school grows—and it inevitably will—there will be adequate housing facilities for all students.

## MSM Students Rank High in National Exams

According to Dean Merl Baker, students from MSM had an average rank in the upper 25 percent in national examinations conducted in Statics, Dynamics and Mechanics. These examinations, administered last spring by the American Society for Engineering Education, are used for comparative analysis.

Professor R. F. Davidson, Chairman of the School's Mechanics Department, administered the tests to MSM students as part of the national testing program. These comprehensive examinations were considered part of the final examinations for courses in the department. Professor Davidson pointed out that in Statics, the school ranked in the upper 18% of 25 schools participating. Three hundred and forty-seven students from MSM

were among the 2159 students taking the test nationwide. In Dynamics the school ranked in the upper 20% in these scores, with 35 schools reporting. Of the 3112 students taking the test across the nation, 195 were from the MSM. Mr. Davidson reported that the scores for the school's students tested in Mechanics of Materials were in the upper 30% nationally, with 30 schools participating. In the Mechanics of Materials section 2783 students were tested nationally with 244 of that total being from the MSM.

### NOTICE

MSM WINS FIRST  
BASKETBALL GAME  
78-66  
SEE PAGE 11

## Student Killed, Another Injured

One MSM student was killed and another seriously injured, in a one-car accident on Highway 63 about six miles north of Freeburg Tuesday morning, November 26.

Killed was Lawrence Henry Baumstark, Jr., 19, of Rich Hill, Mo., a passenger in the car. The driver, Barry Michael Blue, 19, of Hannibal, was taken to St. Mary's Hospital in Jefferson City, where his condition is listed as serious.

The patrol said the driver apparently lost control of the vehicle on a curve. The car left the road, hit a telephone pole, and traveled an additional 60 feet before the the top of the skidding vehicle struck a tree, inflicting the fatal injuries.

Both of the men were sophomores at MSM, and resided at 302 N. Rolla Street.

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## Miner Editorials

### NEED: Read and Heed

You are needed by the *Miner*. Most of all, we need you as a reader. But if you are one of the intelligent, dependable, reliable, talented few, we really need you — as a staff member.

We don't care what your major is, whether you belong to a fraternity, or where you're from. The only thing we are concerned with is your interest in helping the MINER maintain and improve its standards of journalism in the years to come.

A short meeting will be held Monday, Dec. 9, at 4:30 p.m. in the Met. Dept., room 217. Everyone who is at all interested is invited to come and see what it's all about.

The MINER is the student's voice at MSM. It will be the student's voice only as long as the students continue to support it. Are you interested?

## Letter to the Editor

### Foreign Students View Assassination

On November 22, 1963 a man who fought bravely for his country in war as well as in peace was assassinated. In the United States as well as in every inhabited part of the World, people were grief-stricken. Mere words seem utterly inadequate to express the denotations of sorrow rooted in the hearts of millions of people. How can the loss of one single man reason the deportment of all those millions, as if a flaming coal had been pressed into them?

The late John Fitzgerald Kennedy was the leader of a great nation. His devotion and determination to serve humanity spread beyond the boundaries of the American continent to reach the remotest corners of the world. His great efforts to secure peace between all nations will be studied in history with enduring sanction. His endeavor in poising great powers and preparing them for a delineation of peaceful coexistence must be highly commended. With great perspicacity, the late president had tried laboriously to implement in his fellow Americans the drive to reconsider themselves and think consciously about their own faults. For such rare qualities of leadership, it is the feeling that the world has lost a great man.

It is rather unusual that a Dives and an intellectual devotes himself and directs all his abilities to public service. It is very seldom that he, then, aims for no personal gains. But seemingly, that was the case with Kennedy.

Only the elder among the Americans remember the day they heard of the Pearl Harbor tragedy. For the ones who do not, fate has assigned a day to be remembered. The day Kennedy was shot will be etched on their consciences for as long as they live. The etching will be deepened as they think of Mrs. Jacqueline Kennedy, daughter Caroline, and most of all son John Jr.

We Arab students would like to convey our condolences and sincere sympathy to our fellow MSM students, the Rolla residents, the whole of the American people and the world at large. We regret the forfeit of the great leader and share anguish and lamentation with those who are sorrowful for such a solemn loss.

As far as I am personally concerned, the sequences of events that occurred in Dallas, Texas, are rather incoherent. They display peculiar seriatism. To me, the extemporaneous assassination of the president and the ambiguous murder of the assassin seem to be much too simplified to be comprehended. I would have accepted such facts if Americans were still wandering in the truculent "cow boy" days. If there is more to the story, we all have the right to know about it. We all share the sorrows and regrets for losing such a wonderful man.

Farouk El Baz  
President  
Organization of Arab  
Students at MSM

To our American Colleagues:

On behalf of the international students on the campus, please accept our most sincere sympathy in the tragic death of President John F. Kennedy, a national hero and a great world leader. God bless him and help this great country.

Sincerely yours,  
Hassan El-Etr  
President  
International Fellowship

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## NEWS of the Week

**Washington:** President Lyndon Johnson conferred with top leaders of many foreign countries and with scores of military, security, and diplomatic advisors in an effort to become settled in his new post as quickly as possible. The Chief Executive also assured the world that he would carry out for the most part the policies of President Kennedy. In a special address to Congress he called for quick passage of civil rights and tax cut bills. Mr. Johnson also named Chief Justice Earl Warren to head a special group to probe into the deaths of the president and his suspected assassin.

**Venezuela:** Communist and pro-Castro terrorists tried to prevent the people from voting in the presidential election by threats of death, but over 96% of the total electoral votes were cast. The Castroites' plan was to gain a legal basis for declaring

(Continued on Page 12)

### Killed by Moral Complacency

On Friday the 22nd of November a great man died. Men will long lament this man's departure and conjecture the reasons for his death. Some will say that he was killed by an insane fanatic. I beg to disagree. He was killed by a growing virus in this supposedly great country of ours. That ailment is complacency—moral complacency, spiritual complacency, and mental complacency. This man stood for the rededication of our country. He was killed by those opposing his struggle. You say, "Not I." I say, "You and I." We, the complacent Americans, let this happen in our country. We say we are shocked, but, in a few days, most will forget and proceed in lethargy, to be aroused again only by another unforeseen event. Must this man die unheeded? There might have been a divinely inspired reason for his untimely death. "Ours is not to reason why; His was but to do and die." Must our great technological advances follow Emerson's fatalistic predictions? Must we substitute or sacrifice moral decay for a satellite, an altruistic murder of society for a higher standard of living? This man said, "No," and died for his belief. It is for us, the living, to decide. Must he have died in vain or might we profit from the experience and heed the beacon-light of history. Let us not swap steak for divorce, sleep for religion, or laughter for liquor. "To be great is to be misunderstood." This man was truly great. May he rest in peace.

John R. Klug, Jr.

## Guest Editorial

Ask any MSM student what he thinks of the school. The answer will invariably be, "It's a good engineering school, held highly by industry." But, if he is honest, he will probably admit that he doesn't really like going to school here. And in fact, he probably wouldn't be attending MSM if he could acquire the same education for his money elsewhere.

Why does the student think this way? It is my opinion that it is mainly because the student considers MSM merely a school, and not a way of life. And why shouldn't he? It is a well known fact that, while MSM has been building its reputation over the years as a technical institute, it has ignored its basic component — *the student*. In recent years MSM has seen the advent of many new buildings. But, with the exception of the student union building, none of them will directly affect the student's character, mental bearing, or outlook on life. Why are all new buildings planned with the idea that the gymnasium is the least important of them all? Almost any school in the state, including high schools, have a gym which dwarfs ours. How much pressure is being exerted to give the students their new athletic field? The keen competition of various varsity sports is a fundamental character builder. Yet, MSM receives no athletic scholarships compared to the other state colleges. Who deserves them more than a men's college?

I challenge the faculty to consider these things and their importance to the student. And I challenge them to take it on themselves to take the necessary steps to better the situation. Otherwise, how can MSM, which boasts of being one of the top engineering colleges in the nation, expect to turn out the product which industry is most directly in need of — the *Well-Rounded Engineer*?

Kenneth L. Steiniger

**THE MISSOURI MINER**  
MISSOURI SCHOOL OF MINES AND METALLURGY



THE MISSOURI MINER is the official publication of the students of the Missouri School of Mines and Metallurgy. It is published at Rolla, Mo., every Friday during the school year. Entered as second class matter February 8, 1945, at the Post Office at Rolla, Mo., under the Act of March 3, 1879.

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## CAMPUS INTERVIEWS

TUESDAY, DEC. 10

Appointments should be made in advance through your College Placement Office

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# FINAL EXAMINATION SCHEDULE (Fall, 1963-64)

Final Exam Period — January 20, 1964, 8:00 a. m. through January 25, 1964, 5:00 p. m.  
All Grades due 8:00 a. m. Monday, January 27, 1964

## CERAMICS

|    |                               |          |
|----|-------------------------------|----------|
| 11 | Wednesday, Jan. 22, 1:00 p.m. | 103 Ful. |
| 12 | Tuesday, Jan. 21, 10:10 a. m. | 103 Ful. |
| 13 | Wednesday, Jan. 22, 8:00 a.m. | 103 Ful. |
| 14 | Thursday, Jan. 23, 8:00 a.m.  | 103 Ful. |
| 15 | Monday, Jan. 20, 10:10 a.m.   | 103 Ful. |
| 16 | Tuesday, Jan. 21, 10:10 a.m.  | 212 Ful. |
| 17 | Monday, Jan. 20, 10:10 a.m.   | 212 Ful. |
| 18 | Friday, Jan. 24, 8:00 a.m.    | 103 Ful. |

## CHEMISTRY

|     |                                |               |
|-----|--------------------------------|---------------|
| A-B | Wednesday, Jan. 22, 1:00 p.m.  | G6 Ch. E.     |
| C-D | Tuesday, Jan. 21, 10:10 a.m.   | G6 Ch. E.     |
| E-F | Thursday, Jan. 23, 10:10 a.m.  | G6 Ch. E.     |
| G-H | Wednesday, Jan. 22, 10:10 a.m. | G6 Ch. E.     |
|     | Friday, Jan. 24, 8:00 a.m.     | G6 Ch. E.     |
|     | Thursday, Jan. 23, 8:00 a.m.   | 211 Ch. E.    |
| 1   | Friday, Jan. 24, 1:00 p. m.    | G6 Ch. E.     |
| 2   | Tuesday, Jan. 21, 10:10 a.m.   | G3 Ch. E.     |
| 3   | Monday, Jan. 20, 10:10 a.m.    | G3 Ch. E.     |
| 4   | Wednesday, Jan. 22, 1:00 p.m.  | G3 Ch. E.     |
| 5   | Monday, Jan. 20, 10:10 a.m.    | 102 Nor.      |
| 6   | Tuesday, Jan. 21, 3:10 p.m.    | G3 Ch. E.     |
| 7   | Tuesday, Jan. 21, 10:10 a.m.   | 104 Old Chem  |
| 8   | Wednesday, Jan. 22, 1:00 p.m.  | 204 Ch. E.    |
| 9   | Wednesday, Jan. 22, 8:00 a.m.  | 204 Ch. E.    |
| 10  | Monday, Jan. 20, 10:10 a.m.    | 211 Ch. E.    |
| 11  | Tuesday, Jan. 21, 10:10 a.m.   | 111 Old Chem. |
| 12  | Wednesday, Jan. 22, 3:10 p.m.  | 211 Ch. E.    |
| 13  | Tuesday, Jan. 21, 10:10 a.m.   | 110 Ch. E.    |
| 14  | Monday, Jan. 20, 10:10 a.m.    | 202 Ch. E.    |
| 15  | Wednesday, Jan. 22, 1:00 p.m.  | 202 Ch. E.    |

## CHEMICAL ENGINEERING

|    |                               |              |
|----|-------------------------------|--------------|
| 1  | Monday, Jan. 20, 10:10 a.m.   | G6 Ch. E.    |
| 2  | Friday, Jan. 24, 10:10 a.m.   | 202 Ch. E.   |
| 3  | Friday, Jan. 24, 10:10 a.m.   | G6 Ch. E.    |
| 4  | Tuesday, Jan. 21, 1:00 p.m.   | G3 Ch. E.    |
| 5  | Monday, Jan. 20, 10:10 a.m.   | 211 Ch. E.   |
| 6  | Wednesday, Jan. 22, 1:00 p.m. | 310 Ch. E.   |
| 7  | Wednesday, Jan. 22, 8:00 a.m. | 202 Ch. E.   |
| 8  | Wednesday, Jan. 22, 3:10 p.m. | 204 Ch. E.   |
| 9  | Tuesday, Jan. 21, 10:10 a.m.  | 102 Nor.     |
| 10 | Wednesday, Jan. 22, 1:00 p.m. | 104 Old Chem |
| 11 | Monday, Jan. 20, 10:10 a.m.   | 110 Ch. E.   |
| 12 | Wednesday, Jan. 22, 8:00 a.m. | G6 Ch. E.    |
| 13 | Wednesday, Jan. 22, 8:00 a.m. | G6 Ch. E.    |
| 14 | Friday, Jan. 24, 8:00 a.m.    | 202 Ch. E.   |
| 15 | Wednesday, Jan. 22, 1:00 p.m. | 310 Ch. E.   |
| 16 | Tuesday, Jan. 21, 3:10 p.m.   | 110 Ch. E.   |
| 17 | Thursday, Jan. 23, 8:00 a.m.  | 202 Ch. E.   |
| 18 | Monday, Jan. 20, 10:10 a.m.   | 104 Old Chem |
| 19 | Tuesday, Jan. 21, 10:10 a.m.  | 211 Ch. E.   |

## CIVIL ENGINEERING

|    |                                |        |
|----|--------------------------------|--------|
| A  | Friday, Jan. 24, 10:10 a.m.    | 218 CE |
| B  | Wednesday, Jan. 22, 10:10 a.m. | 117 CE |
| C  | Wednesday, Jan. 22, 10:10 a.m. | 117 CE |
| D  | Friday, Jan. 24, 10:10 a.m.    | 120 CE |
| E  | Wednesday, Jan. 22, 1:00 p.m.  | 218 CE |
| F  | Monday, Jan. 20, 10:10 a.m.    | 218 CE |
| G  | Wednesday, Jan. 22, 3:10 p.m.  | 218 CE |
| H  | Thursday, Jan. 23, 8:00 a.m.   | 218 CE |
| I  | Thursday, Jan. 23, 1:00 p.m.   | 114 CE |
| J  | Thursday, Jan. 23, 8:00 a.m.   | 117 CE |
| K  | Tuesday, Jan. 21, 3:10 p.m.    | 117 CE |
| L  | Friday, Jan. 24, 1:00 p.m.     | 117 CE |
| M  | Wednesday, Jan. 22, 1:00 p.m.  | 117 CE |
| N  | Wednesday, Jan. 22, 8:00 a.m.  | 218 CE |
| O  | Monday, Jan. 20, 10:10 a.m.    | 117 CE |
| P  | Tuesday, Jan. 21, 3:10 p.m.    | 218 CE |
| Q  | Tuesday, Jan. 21, 10:10 a.m.   | 218 CE |
| R  | Wednesday, Jan. 22, 8:00 a.m.  | 119 CE |
| S  | Friday, Jan. 24, 10:10 a.m.    | 117 CE |
| T  | Monday, Jan. 20, 10:10 a.m.    | 120 CE |
| U  | Friday, Jan. 24, 8:00 a.m.     | 218 CE |
| V  | Friday, Jan. 24, 10:10 a.m.    | 119 CE |
| W  | Tuesday, Jan. 21, 10:10 a.m.   | 120 CE |
| X  | Wednesday, Jan. 22, 8:00 a.m.  | 117 CE |
| Y  | Wednesday, Jan. 22, 10:10 a.m. | 120 CE |
| Z  | Thursday, Jan. 23, 8:00 a.m.   | 119 CE |
| 1  | Friday, Jan. 24, 8:00 a.m.     | 117 CE |
| 2  | Tuesday, Jan. 21, 8:00 a.m.    | 220 CE |
| 3  | Wednesday, Jan. 22, 1:00 p.m.  | 114 CE |
| 4  | Wednesday, Jan. 22, 3:10 p.m.  | 117 CE |
| 5  | Monday, Jan. 20, 10:10 a.m.    | 114 CE |
| 6  | Friday, Jan. 24, 8:00 a.m.     | 114 CE |
| 7  | Friday, Jan. 24, 10:10 a.m.    | 114 CE |
| 8  | Wednesday, Jan. 22, 1:00 p.m.  | 220 CE |
| 9  | Tuesday, Jan. 21, 10:10 a.m.   | 117 CE |
| 10 | Thursday, Jan. 23, 3:10 p.m.   | 218 CE |
| 11 | Tuesday, Jan. 21, 10:10 a.m.   | 114 CE |
| 12 | Tuesday, Jan. 21, 3:10 p.m.    | 114 CE |
| 13 | Wednesday, Jan. 22, 8:00 a.m.  | 114 CE |
| 14 | Tuesday, Jan. 21, 8:00 a.m.    | 118 CE |
| 15 | See Instructor                 |        |
| 16 | Wednesday, Jan. 22, 8:00 a.m.  | 208 CE |

## ELECTRICAL ENGINEERING

|      |                                |               |
|------|--------------------------------|---------------|
| 31A  | Wednesday, Jan. 22, 3:10 p.m.  | 103 EE        |
| 31B  | Thursday, Jan. 23, 8:00 a.m.   | 103 EE        |
| 31C  | Thursday, Jan. 23, 3:10 p.m.   | 103, 104 EE   |
| 41A  | Wednesday, Jan. 22, 1:00 p.m.  | 103, 220 EE   |
| 41B  | Wednesday, Jan. 22, 3:10 p.m.  | 220 EE        |
| 41C  | Friday, Jan. 24, 8:00 a.m.     | 103, 104 EE   |
| 51A  | Wednesday, Jan. 22, 1:00 p.m.  | G 11 EE       |
| 51B  | Monday, Jan. 20, 10:10 a.m.    | 103, 104 EE   |
| 51C  | Monday, Jan. 20, 10:10 a.m.    | G 11 EE       |
| 61   | Wednesday, Jan. 22, 8:00 a.m.  | G 10 EE       |
| 171A | Thursday, Jan. 23, 3:10 p.m.   | G 10, G 11 EE |
| 171B | Wednesday, Jan. 22, 1:00 p.m.  | 101, 102 EE   |
| 171C | Wednesday, Jan. 22, 3:10 p.m.  | 101, 102 EE   |
| 171D | Friday, Jan. 24, 8:00 a.m.     | G 10, G 11 EE |
| 171E | Wednesday, Jan. 22, 10:10 a.m. | 220 EE        |
| 173A | Tuesday, Jan. 21, 3:10 p.m.    | 103 EE        |
| 173B | Wednesday, Jan. 22, 1:00 p.m.  | 212, 213 EE   |
| 173C | Wednesday, Jan. 22, 8:00 a.m.  | 220 EE        |
| 173D | Thursday, Jan. 23, 10:10 a.m.  | 102, 103 EE   |
| 175A | Tuesday, Jan. 21, 10:10 a.m.   | 220 EE        |
| 175B | Monday, Jan. 20, 10:10 a.m.    | G 11 EE       |
| 175C | Thursday, Jan. 23, 10:10 a.m.  | 107 EE        |
| 177A | Thursday, Jan. 23, 3:10 p.m.   | 101, 102 EE   |
| 177B | Wednesday, Jan. 22, 3:10 p.m.  | G 11 EE       |
| 177C | Thursday, Jan. 23, 10:10 a.m.  | G 11 EE       |
| 237A | Tuesday, Jan. 21, 10:10 a.m.   | 103 EE        |
| 237B | Thursday, Jan. 23, 8:00 a.m.   | 104 EE        |
| 237C | Thursday, Jan. 23, 10:10 a.m.  | 104 EE        |
| 241A | Monday, Jan. 20, 10:10 a.m.    | 220 EE        |
| 241B | Wednesday, Jan. 22, 8:00 a.m.  | 107 EE        |
| 241C | Wednesday, Jan. 22, 1:00 p.m.  | G 10 EE       |
| 251A | Wednesday, Jan. 22, 3:10 p.m.  | G 10 EE       |
| 251B | Monday, Jan. 20, 10:10 a.m.    | G 10 EE       |
| 251C | Wednesday, Jan. 22, 8:00 a.m.  | 104 EE        |
| 257A | Wednesday, Jan. 22, 1:00 p.m.  | 106 EE        |
| 257B | Wednesday, Jan. 22, 3:10 p.m.  | 105 EE        |
| 257C | Friday, Jan. 24, 8:00 a.m.     | 106 EE        |
| 259A | Thursday, Jan. 23, 3:10 p.m.   | 220 EE        |
| 259B | Tuesday, Jan. 21, 10:10 a.m.   | G 11 EE       |
| 259C | Wednesday, Jan. 22, 8:00 a.m.  | 102 EE        |
| 261A | Wednesday, Jan. 22, 1:00 p.m.  | 104 EE        |
| 261B | Wednesday, Jan. 22, 3:10 p.m.  | 104 EE        |
| 261C | Tuesday, Jan. 21, 10:10 a.m.   | G 10 EE       |
| 261D | Thursday, Jan. 23, 8:00 a.m.   | G 11 EE       |
| 263A | Wednesday, Jan. 22, 3:10 p.m.  | 106 EE        |
| 263B | Monday, Jan. 20, 10:10 a.m.    | 105 EE        |
| 275A | Wednesday, Jan. 22, 8:00 a.m.  | 103 EE        |
| 275B | Wednesday, Jan. 22, 1:00 p.m.  | 107 EE        |
| 275C | Thursday, Jan. 23, 8:00 a.m.   | G 10 EE       |
| 275D | Friday, Jan. 24, 8:00 a.m.     | 220 EE        |
| 277A | Wednesday, Jan. 22, 8:00 a.m.  | 105 EE        |
| 277B | Friday, Jan. 24, 8:00 a.m.     | 105 EE        |
| 313A | Tuesday, Jan. 21, 10:10 a.m.   | 103 EE        |
| 313B | Wednesday, Jan. 22, 8:00 a.m.  | 106 EE        |
| 317  | Friday, Jan. 24, 10:10 a.m.    | 105 EE        |
| 365  | Wednesday, Jan. 22, 1:00 p.m.  | 102 Nor.      |
| 367  | Thursday, Jan. 23, 10:10 a.m.  | 220 EE        |
| 375  | Monday, Jan. 20, 10:10 a.m.    | 101, 102 EE   |
| 377A | Thursday, Jan. 23, 8:00 a.m.   | 101, 102 EE   |
| 377B | Friday, Jan. 24, 8:00 a.m.     | 102 EE        |

## GEOLOGY

|     |                                |              |
|-----|--------------------------------|--------------|
| 50  | Thursday, Jan. 23, 1:00 p.m.   | 206,305 Nor. |
| 51  | Wednesday, Jan. 22, 1:00 p.m.  | 305 Nor.     |
| 111 | Wednesday, Jan. 22, 3:10 p.m.  | 103 Nor.     |
| 113 | Thursday, Jan. 23, 8:00 a.m.   | 209 Nor.     |
| 130 | Wednesday, Jan. 22, 10:10 a.m. | 103 Nor.     |
| 141 | See Instructor                 |              |
| 171 | See Instructor                 |              |
| 223 | Tuesday, Jan. 21, 10:10 a.m.   | 303 Nor.     |
| 227 | Monday, Jan. 20, 10:10 a.m.    | 313 Nor.     |
| 254 | Wednesday, Jan. 22, 3:10 p.m.  | 311 Nor.     |
| 286 | Wednesday, Jan. 22, 10:10 a.m. | 311 Nor.     |
| 292 | Monday, Jan. 20, 10:10 a.m.    | 305 Nor.     |
| 312 | Thursday, Jan. 23, 8:00 a.m.   | 308 Nor.     |
| 370 | Tuesday, Jan. 21, 10:10 a.m.   | 103 Nor.     |
| 381 | Tuesday, Jan. 21, 10:10 a.m.   | 211 Nor.     |
| 421 | Wednesday, Jan. 22, 1:00 p.m.  | 303 Nor.     |
| 423 | Wednesday, Jan. 22, 3:10 p.m.  | 303 Nor.     |
| 432 | Friday, Jan. 24, 8:00 a.m.     | 211 Nor.     |
| 433 | Thursday, Jan. 23, 10:10 a.m.  | 303 Nor.     |
| 440 | Wednesday, Jan. 22, 1:00 p.m.  | 103 Nor.     |
| 443 | See Instructor                 |              |
| 475 | Monday, Jan. 20, 10:10 a.m.    | 311 Nor.     |

## ENGLISH

|      |                                |                |
|------|--------------------------------|----------------|
| 1    | Monday, Jan. 20, 3:10 p.m.     | See Instructor |
| 2A   | Monday, Jan. 20, 10:10 a.m.    | Rolla Bldg.    |
| 2B   | Friday, Jan. 24, 8:00 a.m.     | " "            |
| 51A  | Thursday, Jan. 23, 3:10 p.m.   | " "            |
| 75A  | Wednesday, Jan. 22, 3:10 p.m.  | " "            |
| 75B  | Thursday, Jan. 23, 10:10 a.m.  | " "            |
| 105A | Wednesday, Jan. 22, 1:00 p.m.  | " "            |
| 105B | Thursday, Jan. 23, 8:00 a.m.   | " "            |
| 105C | Wednesday, Jan. 22, 8:00 a.m.  | " "            |
| 105D | Thursday, Jan. 23, 10:10 a.m.  | " "            |
| 105E | Wednesday, Jan. 22, 10:10 a.m. | " "            |
| 110A | Tuesday, Jan. 21, 10:10 a.m.   | " "            |
| 110B | Friday, Jan. 24, 8:00 a.m.     | " "            |
| 125  | Tuesday, Jan. 21, 10:10 a.m.   | " "            |
| 150  | Monday, Jan. 20, 10:10 a.m.    | " "            |
| 170A | Wednesday, Jan. 22, 1:00 p.m.  | " "            |
| 170B | Thursday, Jan. 23, 8:00 a.m.   | " "            |
| 170C | Monday, Jan. 20, 3:10 p.m.     | " "            |
| 170D | Monday, Jan. 20, 3:10 p.m.     | " "            |

## FRENCH

|   |                              |             |
|---|------------------------------|-------------|
| 1 | Tuesday, Jan. 21, 10:10 a.m. | Rolla Bldg. |
| 3 | See Instructor               |             |

## GERMAN

|     |                                |             |
|-----|--------------------------------|-------------|
| 1A  | Wednesday, Jan. 22, 1:00 p.m.  | Rolla Bldg. |
| 1B  | Wednesday, Jan. 22, 3:10 p.m.  | " "         |
| 1C  | Wednesday, Jan. 22, 10:10 a.m. | " "         |
| 2   | Thursday, Jan. 23, 8:00 a.m.   | " "         |
| 3   | Friday, Jan. 24, 8:00 a.m.     | " "         |
| 4   | See Instructor                 |             |
| 401 | Wednesday, Jan. 22, 8:00 a.m.  | " "         |

## SPANISH

|   |                               |             |
|---|-------------------------------|-------------|
| 1 | Friday, Jan. 24, 8:00 a.m.    | Rolla Bldg. |
| 2 | Thursday, Jan. 23, 8:00 a.m.  | " "         |
| 3 | Tuesday, Jan. 21, 10:10 a.m.  | " "         |
| 4 | Wednesday, Jan. 22, 8:00 a.m. | " "         |

## ECONOMICS

|      |                                |             |
|------|--------------------------------|-------------|
| 100A | Thursday, Jan. 23, 3:10 p.m.   | Rolla Bldg. |
| 100B | Wednesday, Jan. 22, 1:00 p.m.  | " "         |
| 100C | Wednesday, Jan. 22, 3:10 p.m.  | " "         |
| 100D | Tuesday, Jan. 21, 10:10 a.m.   | " "         |
| 100E | Thursday, Jan. 23, 8:00 a.m.   | " "         |
| 100F | Wednesday, Jan. 22, 10:10 a.m. | " "         |
| 100G | Tuesday, Jan. 21, 3:10 p.m.    | " "         |
| 130  | Wednesday, Jan. 22, 10:10 a.m. | " "         |
| 201A | Thursday, Jan. 23, 8:00 a.m.   | " "         |
| 201B | Monday, Jan. 20, 10:10 a.m.    | " "         |
| 201C | Friday, Jan. 24, 8:00 a.m.     | " "         |
| 201D | Tuesday, Jan. 21, 3:10 p.m.    | " "         |
| 314  | Wednesday, Jan. 22, 1:00 p.m.  | " "         |
| 315  | Monday, Jan. 20, 10:10 a.m.    | " "         |
| 356  | Wednesday, Jan. 22, 8:00 a.m.  | " "         |

## HISTORY

|      |                                |             |
|------|--------------------------------|-------------|
| 160A | Thursday, Jan. 23, 3:10 p.m.   | Rolla Bldg. |
| 160B | Wednesday, Jan. 22, 3:10 p.m.  | " "         |
| 160C | Tuesday, Jan. 21, 3:10 p.m.    | " "         |
| 160D | Monday, Jan. 20, 10:10 a.m.    | " "         |
| 160E | Thursday, Jan. 23, 10:10 a.m.  | " "         |
| 160F | Wednesday, Jan. 22, 10:10 a.m. | " "         |

## PSYCHOLOGY

|     |                               |             |
|-----|-------------------------------|-------------|
| 151 | Thursday, Jan. 23, 10:10 a.m. | Rolla Bldg. |
|-----|-------------------------------|-------------|

## RELIGION

|     |                               |                  |
|-----|-------------------------------|------------------|
| 103 | Friday, Jan. 24, 8:00 a.m.    | Baptist Center   |
| 105 | Thursday, Jan. 23, 10:10 a.m. | Baptist Center   |
| 107 | Thursday, Jan. 23, 3:10 p.m.  | St. Pat. School  |
| 109 | Thursday, Jan. 23, 3:10 p.m.  | St. Pat. School  |
| 113 | Friday, Jan. 24, 10:10 a.m.   | Methodist Church |
| 117 | Friday, Jan. 24, 10:10 a.m.   | St. Pat. School  |

## SOCIOLOGY

|     |                             |             |
|-----|-----------------------------|-------------|
| 181 | Monday, Jan. 20, 10:10 a.m. | Rolla Bldg. |
|-----|-----------------------------|-------------|

## MATHEMATICS

|      |                                |                |
|------|--------------------------------|----------------|
| 3    | Thursday, Jan. 23, 3:10 p.m.   | Harris Hall    |
| 5    | Monday, Jan. 20, 8:00 a.m.     | See Instructor |
| 8    | Monday, Jan. 20, 8:00 a.m.     | See Instructor |
| 21   | Monday, Jan. 20, 1:00 p.m.     | See Instructor |
| 22   | Monday, Jan. 20, 1:00 p.m.     | See Instructor |
| 51   | Thursday, Jan. 23, 10:10 a.m.  | Harris Hall    |
| 73   | Monday, Jan. 20, 3:10 p.m.     | " "            |
| 112  | Tuesday, Jan. 21, 3:10 p.m.    | " "            |
| 201A | Thursday, Jan. 23, 3:10 p.m.   | " "            |
| 201B | Wednesday, Jan. 22, 3:10 p.m.  | " "            |
| 201C | Tuesday, Jan. 21, 10:10 a.m.   | " "            |
| 201D | Thursday, Jan. 23, 8:00 a.m.   | " "            |
| 201E | Monday, Jan. 20, 10:10 a.m.    | " "            |
| 201F | Wednesday, Jan. 22, 8:00 a.m.  | " "            |
| 201G | Friday, Jan. 24, 8:00 a.m.     | " "            |
| 310  | Tuesday, Jan. 21, 10:10 a.m.   | " "            |
| 318  | Thursday, Jan. 23, 1:00 p.m.   | " "            |
| 322  | Thursday, Jan. 23, 8:00 a.m.   | " "            |
| 325A | Thursday, Jan. 23, 3:10 p.m.   | " "            |
| 325B | Thursday, Jan. 23, 10:10 a.m.  | " "            |
| 331  | Wednesday, Jan. 22, 10:10 a.m. | " "            |
| 333  | Tuesday, Jan. 21, 10:10 a.m.   | " "            |
| 336  | Wednesday, Jan. 22, 1:00 p.m.  | " "            |
| 343  | Friday, Jan. 24, 8:00 a.m.     | " "            |
| 346  | Wednesday, Jan. 22, 3:10 p.m.  | " "            |
| 351  | Thursday, Jan. 23, 3:10 p.m.   | " "            |
| 357  | Wednesday, Jan. 22, 8:00 a.m.  | " "            |
| 403  | Wednesday, Jan. 22, 8:00 a.m.  | " "            |
| 405  | Monday, Jan. 20, 10:10 a.m.    | " "            |
| 408  | Thursday, Jan. 23, 8:00 a.m.   | " "            |

## MECHANICS

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## Summer Institute to Be Sponsored by MSM

Under the joint sponsorship of the United States Atomic Energy Commission and the National Science Foundation, MSM will conduct an eight week Summer (1964) Institute in Nuclear Science and Engineering for College Teachers of Chemistry and Physics, it was announced today. Director of the Institute will be Dr. William H. Webb, Professor of Chemistry. Dr. Webb will present a course in nuclear chemistry at the Institute, and Dr. Doyle Edwards, Assistant Professor of Nuclear Engineering and Director of the Nuclear Reactor, will present a course in reactor physics and nuclear reactor experimentation. Seminars will include guest speakers of national reputation in specific nuclear engineering.

Dr. Webb explained that the course will be opened to 24 select students, and that special emphasis will be placed on accommodating science teachers of chemistry or physics on the staffs of colleges that maintain a 3-2 program with MSM. Under such a plan, a student may obtain part of his general work at one of these colleges and complete his requirements at MSM in the specific area of science or engineering not offered at the participating schools. The schools which maintain this cooperative program with MSM are: Central Methodist College, Fayette;

Central Missouri State College, Warrensburg; Culver Stockton College, Canton; Drury College, Springfield; Illinois College, Jacksonville, Illinois; Missouri Valley College, Marshall; Northeast Missouri State College, Kirksville; Northwest Missouri State College, Maryville; Park College, Parkville; William Jewell College, Liberty. Southeast Missouri State College, Cape Girardeau, offers a pre-engineering curriculum and their teachers are encouraged to investigate the Institute also. College and university teachers enrolled in the institute may request graduate credit and chemistry for the coursework at the Institute.

Dr. Webb stated that this is one of 64 Institutes to be conducted during the coming summer (1964). In the joint effort, he said, the National Science Foundation will provide \$22,800 for stipends and the Atomic Energy

Commission will provide \$14,800 for operations.

Nationwide, summer study opportunities in 1964 will be provided for more than 2,100 college teachers of science, mathematics and engineering.

Foundation grants totaling \$2.6 million will support 64 institutes throughout the country. Summer institutes offer programs specially designed to renew the teacher's knowledge of fundamentals, to acquaint him with recent developments and advances in science, mathematics, and engineering, and to familiarize him with new approaches in the presentation of subject matter.

Teachers attending the institutes receive stipends of not more than \$75 a week during training, allowances for travel, and allotments for dependents. Stipends are tax free.

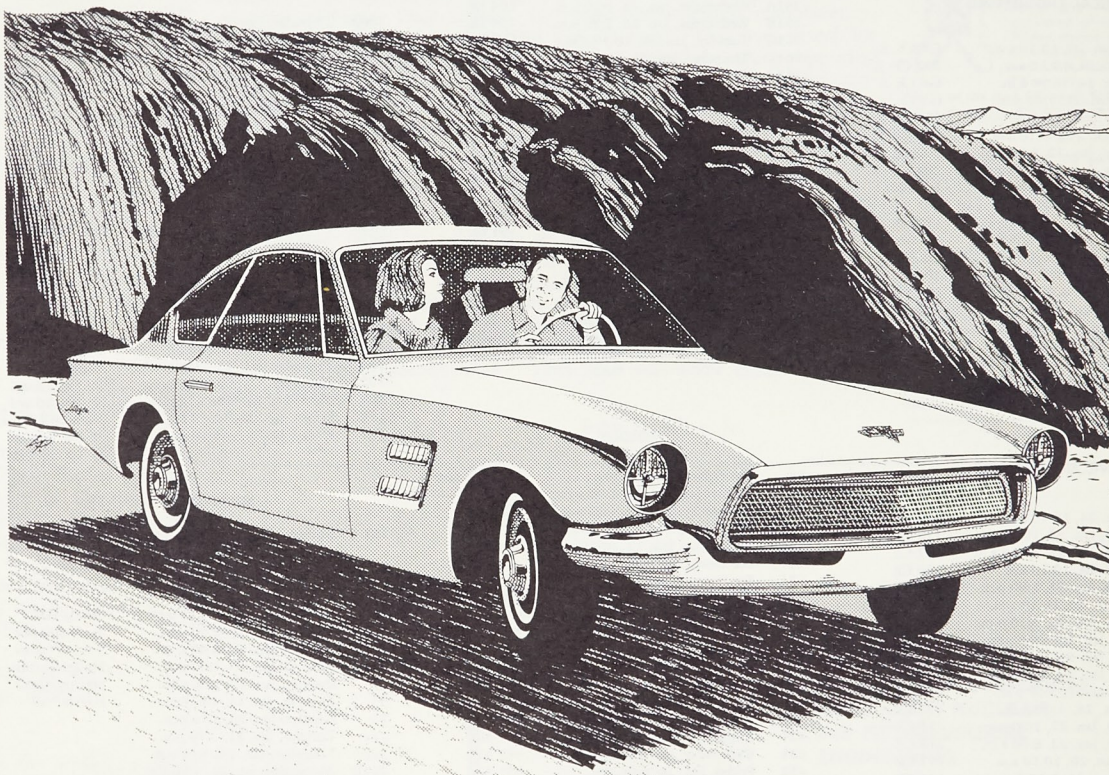
Participants are chosen by the staff of the institute, NOT by the National Science Foundation. Inquiries and applications for participation should be addressed to directors of the institutes named in the attached list.

## LITTLE MAN ON CAMPUS



"GOOD HEAVENS! THE DUMBEST CLASS OF ENGINEERS I EVER HAD KNEW HOW TO DRESS FOR A 'SURVEY PARTY'."

**Assignment: design a car for tomorrow...  
that could be built today!**



**Result: Allegro, an experiment in advanced automotive ideas  
that are practical for the near future**

Allegro means "brisk and lively," which certainly describes Ford Motor Company's new dream car, a handsome fastback coupe. More than that, Allegro has unique functional features that could be adapted for future production cars. (This has already occurred in the case of retractable seat belts.)

A major innovation is a cantilever-arm steering wheel with an electronic "memory." The steering wheel is mounted on an arm that extends from a center-mounted column. The wheel swings upward for easy exit, returns automatically to its former position at the touch of a button. Power adjustment enables it to be moved three inches fore and aft and five inches vertically. This, plus power-adjustable

foot pedals, permits use of a fixed seat design for low overall height.

Basically a two-seater in present form, Allegro has rear floor space that could be converted to carry two additional passengers. The car could be powered by either a V-4 made by Ford of Germany or by the domestic 144- or 170-cubic-inch Sixes.

Allegro is one of a series of Ford-built dream cars which will be shown at the New York World's Fair to test consumer reaction to styling and mechanical innovations. This will help determine which of their forward-looking features are destined for the American Road—as further examples of Ford Motor Company's leadership in styling and engineering.

## Mr. Bob Doerr Speaks at SWE Meeting Nov. 12

At its meeting on Nov. 12, the Society of Women Engineers had as its speaker, Mr. Bob Doerr, a research physicist at the U. S. Bureau of Mines.

Mr. Doerr, past president of the Missouri chapter of Nature Conservancy, talked about the work of that group. Nature Conservancy is a national group that desires to retain plants and animals in their natural state. This objective is promoted by helping research groups acquire land. These are mainly small tracts with some particular species to be maintained. Mr. Doerr's talk included colored slides of some of these areas in Missouri.

All women in science and engineering are urged to attend the next SWE meeting on Jan. 8, when Mr. J. W. Thompson from Monsanto Chemical Co. will discuss the problems of employment, summer and permanent, for women in technical fields.

## High School Varsity Letters Banned by M-Club

The M-Club requests that all persons possessing varsity letters received while in high school refrain from wearing them on campus. The only athletic awards recognized at MSM are those earned while participating in varsity athletics at this institution or at another college.

This is a standing rule and the M-Club strongly advises that all students cooperate.



MOTOR COMPANY

The American Road, Dearborn, Michigan

WHERE ENGINEERING LEADERSHIP BRINGS YOU BETTER-BUILT CARS



## MSM Coeds - A Growing Influence on Our Campus

MSM is a coeducational institution by Missouri state law. Some students may be inclined to argue this point, but the fact remains that approximately eighty girls have graduated from our school with a technical degree.

The question arises as to why a girl decides to come to SM. This is not a new question, as is evidenced by a quote from the *Rollamo* of 1928, "...everyone feels their influence. . .but . . . we wonder just the why and how of a co-ed engineer."

There are sixty-four girls enrolled this year, but about half of these are not pursuing engineering degrees. These are mostly Miners' wives or girls from Rolla and nearby towns who plan to use humanities credits from MSM at school elsewhere.

The remaining girls are enrolled in curricula ranging from Math to Ceramics and EE. Often overlooked is the fact that these girls are here for the same reasons male students are; because they are interested in and have a high aptitude for the type of study MSM offers. Also, financial reasons, of course, play an important part.

This campus has been graced by the fairer sex since the first years of the school. Eva Hirdler Greene was the first woman graduate, receiving a Bachelor of Science degree in 1911. Many alumnae have received a number of honors in the scientific world,

and quite a few are wives of past and present faculty members.

The first organization of female students was the Rollamo Coeds, begun in 1939 under the direction of Mrs. W. T. Schrenk. Their main interest seems to have been the formation of an all-girl rifle team! In 1940 this group evolved into the Alpha Chapter of Pi Delta Chi, a "sorority" with seventeen members. This lasted only about two years, and until 1960 there was no association open to women students only. In that year the local chapter of the Society of Women Engineers was established, but this is a professional society and can not serve a purely social purpose.

In September, 1962, the first Women's Dormitory was opened, and later that year the Women's Residence Organization was formed, for residents only. The newly formed "Coeds", a social organization, open to all women students, has a growing membership and a promising future. And more and more coeds are participating in other campus activities.

So it appears that as coed enrollment increases, the feminine influence is felt more and more. Women engineers are not such a far-fetched idea, and it is even grudgingly admitted that they can be quite feminine and attractive, not always, as has been said,

"A bob-haired wreck  
From Rolla Tech  
A co-ed engineer!"

## Greek News

### MSM to Be Represented At Nat'l IFC Conference

American college fraternities will undergo their annual self examination and search for more effective ways to attain their goals when the 54th annual meeting of the National Interfraternity Conference convenes in New York December 5 at the Hotel Americana.

Almost 1000 participants are expected to attend the 3-day meeting, including graduate delegates, from 60 member fraternities representing 3500 chapters in 365 institutions and 400 representatives of undergraduate interfraternity councils. College deans, student advisors, prominent educators, and business and professional leaders active in fraternity administration will also attend.

Representing MSM's IFC will be Hugh McCane of Phi Kappa Theta.

As a consultative and coordinating body of all general men's fraternity systems of American and Canadian colleges and universities,

the National Interfraternity Conference has been holding annual meetings since its founding in 1909.

The theme of the conference will be based on the ideals of college fraternities in terms of their public image, their dedication to principles, their adjustment to the trends in higher education, their accommodation to the economics of good business management, their leadership capacity and how it can be developed, and their ability to maintain the highest standards of scholarship and conduct in their internal affairs.

Justice Tom C. Clark of the U.S. Supreme Court and former U.S. Attorney-General under the Truman Administration will deliver the keynote address at the principal banquet on December 6. Justice Clark, a graduate of the University of Texas, is presently vice president of Delta Tau Delta fraternity.

### Dr. Sauer Speaks To S.P.E. Meeting In St. Joseph

Dr. Harry J. Sauer, Jr., Associate Professor of Mechanical Engineering at the Missouri School of Mines and Metallurgy, was the guest speaker at the November meeting of the Northwest Chapter of the Missouri Society of Professional Engineers. The meeting was held November 20 in St. Joseph, Missouri.

In observance of Young Engineers' Month, the chapter had as guests pre-engineering students from Northwest Missouri State College, Highland (Kansas) Junior College, and the St. Joseph Junior College Engineers Club. Ninety-two engineers and engineering students attended the meeting.

Professor Sauer's talk on Engineering and Engineering Education in the Midwest was concluded by slides of the recently completed Taum Sauk Hydroelectric Project and a slide visit to six college campuses in the midwest.

Dr. Sauer has been on the MSM faculty since 1957 and has been associated with Midwest Research Institute, Boeing, Convair, Black and Veatch, and Kansas City Power and Light Co.

MINER COPY  
MUST BE IN THE  
MINER BOX  
ON MONDAY  
BY 12:00 NOON  
TYPEWRITTEN AND  
DOUBLE SPACED

### UPTOWN THEATRE

MOVIES IN CINEMASCOPE

Thurs., Fri., Sat. Dec. 5-7  
'Rampage'

Robert Mitchum & Elsa Martinelli

Sun., Mon. Dec. 8-9

Sunday Continuous from 1 p. m.

'Come Fly With Me'

Delores Hart & Hugh O'Brian

Tues., Wed. Dec. 10-11

'The Hook'

Kirk Douglas & Nick Adams

### RITZ THEATRE

MOVIES ON WIDE SCREEN

Fri., Sat. Dec. 6-7

Saturday Continuous from 1 p. m.

'The Day Mars

Invaded Earth'

Kent Taylor & Marie Windsor

—PLUS—

'Amazons of Rome'

Louis Jourdan & Sylvia Syms

Sun., Mon., & Tues. Dec. 8-10

Sunday Continuous from 1 p. m.

'The Nutty Professor'

Jerry Lewis & Stella Stevens

—PLUS—

'The Green Helmet'

Bill Travers & Ed Begley

Wed., Thurs. Dec. 11-12

'The Slave'

Steve Reeves & Jacques Sernas

—PLUS—

'Rififi in Tokyo'

Karl Boehm & Barbara Lass

## "Increase Your Word Power"

VERBS ARE the dynamos of our language. In the following list, check the word or phrase you believe is nearest in meaning to the key word.

1. **appease** (ă pēz')—A: to anger. B: assist. C: pacify. D: surrender.
2. **acquiesce** (ak wī es')—A: to greet. B: accept passively. C: rest. D: be greedy.
3. **detonate** (dēt' ō nāte)—A: to quiet. B: brag loudly. C: make a discord. D: explode.
4. **ransack** (ran' sack)—A: to pack up. B: run wild. C: search thoroughly. D: wreck.
5. **enjoin** (en join')—A: to forbid. B: connect. C: agree upon. D: flow together.
6. **repudiate** (rē pū' dī āte)—A: to offend. B: regret. C: answer back. D: reject or disclaim.
7. **foment** (fō ment')—A: to sparkle. B: stir up. C: become sour. D: boil.
8. **pre-empt** (prē empt')—A: to appropriate. B: order bluntly. C: contradict. D: obstruct.
9. **burgeon** (bur' jun)—A: to intrude. B: rage. C: hit with a club. D: send forth buds.
10. **expunge** (eks punj')—A: to blot out. B: borrow from. C: squeeze dry. D: forgive.
11. **culminate** (kul' mī nāte)—A: to slander. B: reach a final effect. C: overwhelm. D: heap together.
12. **appertain** (ap er tāne')—A: comprehend. B: procure. C: belong. D: find out.
13. **countenance** (koun' tē nans)—A: to oppose. B: encourage. C: grimace. D: embarrass.
14. **covet** (kūv' et)—A: to find fault. B: frolic. C: outwit. D: desire.
15. **elicit** (ē lis' it)—A: to act illegally. B: deceive. C: draw forth. D: entreat.
16. **dally** (dāl' ī)—A: to trifle or play around. B: decorate or adorn. C: hang from. D: flatter.
17. **proliferate** (prō lif' er āte)—A: to exaggerate. B: talk too much. C: bear or produce frequently. D: wander aimlessly.
18. **concoct** (kōn kōkt')—A: to falsify. B: prepare or make up. C: hide. D: fool.
19. **denominate** (dē nōm' ī nāte)—A: to elect to office. B: dismiss. C: trouble. D: name.
20. **arraign** (a rain')—A: to call to account. B: withdraw. C: stop. D: put in proper order.

Permission is hereby granted to reprint these items with credit to The Reader's Digest

(ANSWERS NEXT WEEK)

ONE WAY TO TRAVEL  
FOR LESS  
THAN GREYHOUND

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**SIGMA TAU GAMMA****Reta Louise Eidson**

Sigma Tau Gamma is very proud to present Reta Louise Eidson as its candidate for Military Ball Queen.

Reta has blue eyes, brown hair, is 5' 2½" tall, and weighs 115 pounds.

After graduating from Ballard High School in Ballard, Missouri, she moved to Kansas City. There she was employed by the Westport Bank as a proof operator.

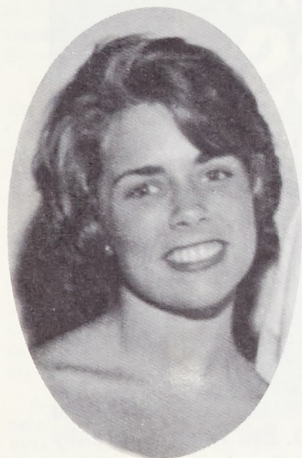
Last September, Rita and her husband, James R. Eidson moved to Rolla. She is now employed at the First State Bank of Rolla.

**LAMBDA CHI ALPHA****Judy Owens**

Lambda Chi Alpha is proud to

**Reta Louise Eidson**

present as its Queen candidate to reign at the 1963 Military Ball. Miss Judy Owens. Judy is 5' 1"

**Judy Owens**

tall and has blue eyes, and brown hair. She is a sophomore at the university of Illinois where she is an active member of Star Course, Dolphin Club, and Block "I". Her major is education with a minor in psychology. Judy's various interests include: painting, swimming, canoeing, water skiing, and golf. Miss Owens is nineteen years old and makes her permanent residence in Champaign, Illinois.

**KAPPA SIGMA****Marken Frazier**

A lovely miss from Stephens College, Miss Marken Frazier, is Kappa Sigma's representative for Military Ball Queen. Hailing from Brownfield, Texas, this southern belle is majoring in fashion design.

At Stephens, Marken is a member of Pi Phi Rho, fashion honorary society, and is a member of the modeling squad. In addition, her interests include horseback riding, sewing, reading, and photography.

This 20-year-old, 5' 4" beauty will be escorted by Paul Gerhardt, a senior in Metallurgical Engineering.

**THETA XI****Sue Louise George**

Theta Xi Fraternity is proud to introduce its 1963 Military Ball queen candidate, Miss Sue

**Marken Frazier**

Louise George. Sue is the lovely daughter of Mr. and Mrs. Raymond George of Webster Groves, Missouri.

While attending Webster Groves High School, Sue was accomplished in athletics, participating actively in bowling, basketball, hockey, and volleyball teams and as a member of GAA. Sue is also practiced in modern dance and acted as president of the Modern Dance Club. In addition to athletics, Sue enjoys singing and has appeared in the A Capella Choir's presentations, "Brigadoon" and

**Sue Louise George**

"Something Big."

Now a freshman at the University of Missouri, she has carried over her previous interests and is majoring in Physical Education with plans to teach specialized education by working with the physically handicapped or mentally unstable. Still active in modern dance, she has broadened her interests by becoming a member of the Mo-Maids, a precision synchronized swimming group.

**MRHA****Susie McLean**

The Men's Residence Hall As-

sociation is proud to present its candidate for Military Ball Queen, Miss Susie McLean.

Susie, a 1963 graduate of Edwardsville High School, Edwardsville, Illinois, is presently studying Cosmetology at Vocational Technical Institute, a branch of Southern Illinois University. A very attractive five-foot three-inch redhead, she enjoys sewing, dancing and horseback riding.

**Susie McLean****ENGINEER'S CLUB****Sue N. Obermoeller**

The Engineer's Club is proud to present its Queen Candidate, Miss Sue N. Obermoeller.

Sue is a twenty-year-old native of Kirkwood, Missouri, and is presently employed as a secretary with Campbell Chemicals Inc. A very active girl, Sue enjoys sailing, tennis, and swimming. Her other interests include knitting and reading.

Sue's charming personality is contained in a shapely figure 5' 4"

**Sue N. Obermoeller**

tall. She has light brown hair and sparkling green eyes.

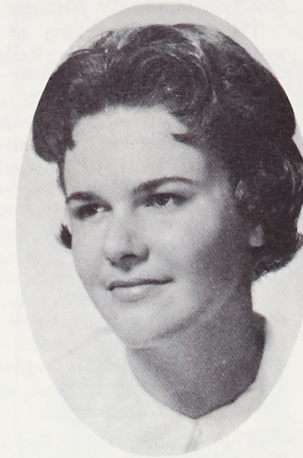
It is not at all unusual to see Sue clad in her favorite color — red.

**PERSHING RIFLES****Alice Ann Kick**

Pershing Rifles are proud to present Miss Alice Ann Kick as

their candidate for the 1963 Military Ball Queen.

Alice, a 5' 4" brunette, is from Florissant, Missouri. She is presently a freshman at Fontbonne

**Alice Ann Kick**

College, majoring in education, specifically instruction of the deaf. At the present time she is doing volunteer work at St. Joseph's Deaf Institute, and plans to teach there upon graduation from Fontbonne.

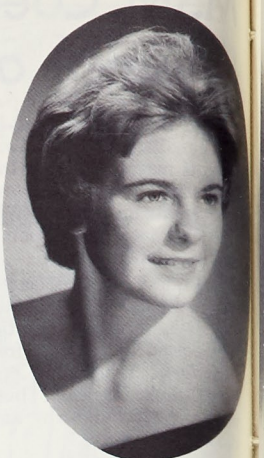
Her extra curricular activities include the Sodality, Student's National Education Association, time she enjoys tennis and swimming.

Alice was recently selected

**Linda Marie Moro**

as its candidate for the 1963 Military Ball.

Miss Moro, a resident of St. Louis, Missouri, attended St. John's High School, where she was active in the pep club. She is

**Jenny Cutler**

presently employed as a government secretary and is attached to the United States Army. She has been a close follower of professional basketball for years and is an avid fan of the St. Louis Hawks.

Linda, a 5' 4" tall brunette with hazel eyes will be escorted by Brother Tom Hrachich.

**KAPPA ALPHA****Jenny Cutler**

Miss Jenny Cutler, a 5' 4" tall blond, blue-eyed beauty, is Kappa Alpha's candidate for Military Ball Queen. Jenny attended William Wood College where she

**Barbara Lautz**

Barbara Lautz as its candidate for Military Ball Queen. Barbara

# MILITARY BALL

Honorary Company Commander of Company K, and will represent Company K in the Honorary Regimental Commander Contest in Stillwater, Oklahoma.

Alice's escort for the Military Ball activities will be Ronald Rusch, a senior in Civil Engineering.

**DELTA SIGMA PHI****Linda Marie Moro**

Delta Sigma Phi is proud to present Miss Linda Marie Moro

is a junior. Upon graduation, she plans to enter the field of elementary education. Active in many school functions, Miss Cutler is vice-president of her dormitory and is a member of the school newspaper staff.

K. A.'s beauty is a resident of Kirkwood, Missouri, where she attended high school. Miss Cutler is pinned to brother Wayne A. Mansberger, a junior in Civil Engineering. The men of Kappa Alpha are indeed proud to have Jenny as their choice for Military Ball queen.

**SIGMA PI****Barbara Lautz**

Sigma Pi has chosen Miss Barbara Lautz as its candidate for Military Ball Queen. Barbara



is pretty Miss Harriet Korman. Harriet is a native of St. Louis, Mo. She is presently a freshman at the University of Missouri at Columbia, and is majoring in

#### SIGMA PHI EPSILON

##### Kateri Rawlings

Representing Sigma Phi Epsilon as a candidate for the 1963 Military Ball Queen is Miss Kateri Rawlings. Presently attending Fontbonne College in St. Louis, Kateri plans to transfer to Indiana University this spring. Coming from Evansville, Indiana, she enrolled at Fontbonne in

County Fall Festival, and has placed among the top four finalists of the Missouri Queen of Fairs Contest.

Mrs. Bryson will be escorted by her husband, Tom Bryson, a senior in Mechanical Engineering.

#### TRIANGLE

##### Nancy Chandler

The men of Triangle are proud to announce the selection of Miss Nancy Chandler as their candidate for Queen of the Military Ball.

Nancy, at 5' 3" tall proves that good things do indeed come

pledge of Delta Delta Sorority.

Joellen is presently employed as a receptionist for Maritz Inc. of St. Louis, Mo. Her hobbies include water skiing, bowling, sewing, and one Wayne Scheer to whom she plans to be married in February, 1964.

The Brothers of Beta Sigma Psi are proud to have Jo represent them at the 1963 Military Ball.

#### PI KAPPA ALPHA

##### Janice Miller

The 1963 MSM Military Ball will be graced this year by Mrs. Janice Miller, Pi Kappa Alpha's candidate for Military Ball Queen. Janice originally hails from Hardin, Kentucky, and is now living in Rolla with her husband, Ron Miller, who is an active member of Pi Kappa Alpha. She



Jenny Cutler

graduate of Academy of Notre Dame, Belleville, Illinois. She is now employed as a secretary for a law firm and first year student at Belleville College. Besides school work, her interests are tennis, swimming, dancing, good books, and good music. What is a perfect combination of personality, beauty, and intelligence. Sigma Pi is proud to have Lautz as its Military Ball Candidate.

#### PHI KAPPA THETA

##### Judie Fitzpatrick

The men of Phi Kappa Theta selected Miss Judie Fitzpatrick



Sylvia PreFontaine

Business.

Miss Korman is "pretty as a picture" with personality plus. What more could anyone want? That's why Alpha Epsilon Pi proudly presents her as its candidate for Military Ball Queen.

#### ACACIA

##### Sylvia PreFontaine

Acacia has chosen lovely Miss Sylvia PreFontaine as its candi-



Reba Bryson

1962 and since then she has associated herself with many campus activities including membership in the Fontbonne Theater Players, Resident Students' Dorm Council, and the Fontbonne Ath-



Joellen Bock

in small packages. Her flaming red hair and beautiful green eyes suggest her inner spirit. This is not Nancy's first time as a queen candidate. She was among the ten finalists from the field of several hundred entries in the annual "Miss Flame" contest sponsored by the St. Louis Fire Department.

Miss Chandler, a former student at NEMS, is presently employed with the Union Electric Company of St. Louis. As for the future, she is considering a career as an airline stewardess.

Miss Chandler will be escorted



Judy Jablonski

attended and graduated from Murray State College with high honors, and is now an elementary

# MURRAYBALL 1963

as their candidate for the 1963 Military Ball Queen. Harriet, a brown-haired, blue-eyed lass from Argyle, Missouri, is presently employed by the Missouri State Department of Vehicle Registration. She is twenty-one years old, weighs one-hundred-thirty pounds, and is five-foot-inches tall. Her favorite pastimes include motor sports, and active participation in bowling. Her escort is Bill Crede, a senior majoring in mechanical engineering and a member of the TC Cadet Corps.

date for Military Ball Queen.

She is presently attending Donnelly College, Kansas City, Kansas, where she plans to receive an Associate of Arts degree. She hopes to finish her education in the land of her birth, Canada, at the University of Saskatchewan. Sylvia is currently living in Kansas City on a Canadian visa.

This pert, 5' 2", brown-eyed, black-haired lass has no trouble finding things to occupy her time. She is freshman Student Council Representative, secretary of the Freshman Class, and a member of

letic Association. Kateri, majoring in speech therapy with a minor in psychology, plans to work with speech defective children upon her graduation in 1965.

Sig Ep is pleased to have Miss Rawlings as its Military Ball Queen candidate. She will be escorted by Jim Boaz, a junior in Civil Engineering.



Janice Miller

by Mr. David Stege, a senior in Electrical Engineering.

#### BETA SIGMA PSI

##### Joellen Bock

Beta Sigma Psi has chosen as its Military Ball Queen candidate Miss Joellen Bock. Miss Bock is a 1961 graduate of Beaumont High School in St. Louis. While attending high school, Jo was active in Student government, the pep club and the Job's Daughters.

After high school, she attended Southeast Missouri State for three semesters. While majoring in speech at Cape, Jo became a



Holly Ann Long

teacher in Rolla's elementary school system. Janice is one of the two children of Redic and Dewey Pace. She is now 22 years of age, and is blessed with the combination of brown hair and green eyes. Janice is 5' 6", with measurements of 35-24-36, weighs 116 pounds, and possesses one of the most delightful "partial southern accents" that one may ever encounter.

Pi Kappa Alpha is very proud to enter a candidate with the sparkling personality and enviable appearance of Mrs. Janice Miller. We are sure that no better example of friendliness and beauty exists.

#### FIFTY-NINERS

##### Judy Jablonski

#### INDEPENDENTS

##### Holly Ann Long

#### ALPHA EPSILON PI

##### Harriet Korman

Representing Alpha Epsilon Pi as its Military Ball Queen Candidate



Harriet Korman



Kateri Rawlings

the editorial staff of the Donnelly College newspaper.

Miss PreFontaine will be escorted by her pinmate, John Nelson.



Nancy Chandler

#### SIGMA NU

##### Reba Bryson

Sigma Nu Fraternity has selected Mrs. Reba Bryson as its candidate for queen of the 1963 MSM Military Ball.

Reba graduated from Salem High School and is presently employed as a legal secretary.

At 5' 7" tall with black hair and brown eyes, she has already won the title of Queen of the Dent

#### SIGMA PI

##### Barbara Lautz

Pi has chosen Barbara Lautz as its candidate for Military Ball Queen.



Barbara Lautz



## Largest Spring Training Program for Peace Corps

The Peace Corps announced plans today for the largest spring training program in the agency's history.

Volunteers scheduled for assignments in 18 nations will enter training at U. S. colleges and universities in February-March, said Peace Corps Director Sargent Shriver. An estimated 1,500 prospective Volunteers will participate in the training programs.

In past years, only about 400 Volunteers have entered mid-year training programs, Shriver said. While the peak in-put period will continue to be the summer months, he said this year's large spring group will fill urgent requests from countries in Africa, Asia and Latin America.

Many of the spring group will be mid-year graduates of P. S. colleges and universities who will fill teaching assignments, most of which require college degrees. But about one-third of the spring trainees will not be required to have degrees.

The spring training programs will prepare Volunteers for service in Somalia, Malaysia, Nigeria, Ecuador, Nepal, Thailand, India, Jamaica, Togo, Colombia, Panama, Iran, Bolivia, Brazil,

Chile, Venezuela, Tanganyika, and the Dominican Republic.

Teachers will be needed at all levels—elementary, secondary and university—and in all subjects, with particular emphasis on English, science and mathematics. Some physical education and vocational teachers will also be required.

Other Volunteers will be enrolled in agricultural extension, community development, construction, engineering, and geology programs.

Peace Corps Volunteers serve for two years, including training. They get a modest living allowance designed to let them live at a level equal to that of the people with whom they work—Plus a \$75 monthly readjustment allowance, paid at the end of their service.

Currently, 7,164 Volunteers are at work in 46 countries.

8. PREREGISTRATION WITHOUT EARLY PAYMENT OF FEES WILL NOT RESERVE YOUR CLASSES FOR YOU; it will, however, simplify your registration procedure on January 30 and 31, 1964.

### New Students and Former Students not Enrolled for the Fall Semester

New Students and former students who have indicated they are returning will be preregistered by the Registrar's Office in cooperation with their department advisors.

#### Early Registration

1. If you are currently enrolled in any courses for which you earned a grade of F (or more than two D's) at mid-semester, you will not be permitted to register early.

2. If you are eligible and have indicated during preregistration week that you wish to register early, you will be sent a card during the early part of January asking you to come back to finish your registration. If you do not respond to this card, your course cards will be put back and you will be required to complete registration during the regular period.

3. At the time that you complete your early registration you must check the class cards which have been pulled for you to make sure that they are correct.

4. After you have paid your fees, the only way in which your

schedule can be changed by you is through drop and add slips after the beginning of classes.

5. Early payment of fees, during the period from January 6 through January 17, 1964, will enable you to delay your return to school after the close of the semester until the beginning of classes on February 3, 1964.

## The Reviewer's Stand

"THE HOOK"

It is just as though a microscope has been adjusted over the vast, bloody, fiery panorama of a war, and a tiny infinitesimal segment of that war has been placed on the microscope's slide. "The Hook" is a work of rare sincerity, insight and force, focusing on the behavior patterns of three soldiers when they are confronted with a set of circumstances not in the manual of arms, or the book of rules of war, or any of the army manuals which call for specific and routine courses of action.

The producing team of William Perlberg, producer, and George Seaton, director, has a number of distinguished examples of filmmaking to their credit. None surpasses this film in genuine integrity, skill and know-how, in the art of creating — and sustaining — a mood, or conveying an idea. The conduct of men under extreme pressures of circumstances always makes for fascinating study, and this picture utilizes most unusual circumstances for just such a study.

In this case the war is in Korea, the men are American soldiers, and the time is 1953. The soldiers are Kirk Douglas, the sergeant, and Robert Walker and Nick Adams, privates. With them appear Enrique Magalona as a North Korean Communist prisoner, and Nehemiah Persoff, as the civilian captain of a Finnish merchant ship under charter to the United Nations in Korean waters.

Douglas and Adams, two experienced soldiers, and Walker, less used to killing and war, escape to a beach in Korea after demolishing their equipment under orders. The ship on which they find themselves, captained by Persoff, is loaded with high octane gas. With them is a Communist flier, who parachuted into the water, and was rescued by Walker. Command headquarters, to which

Douglas reports by radio, tells him of heavy bombing and orders him to "dispose of" the prisoner. From there on out the conflict rages among the men, as Douglas orders Walker to kill Magalona, who knows no English, and Walker refuses. Adams, it is revealed, is under the thumb of Douglas, because of a past favor. Whether the American soldiers will kill the prisoner or not, after living and

eating with him, is the question which then runs through the minds of the people in the audience.

It is a powerful story, brilliantly told in motion picture terms, and one which the intelligent audience is certain to appreciate, applaud — and talk about to others. It will be shown at the Uptown Theater from December 10, through December 11.



### 'TIS THE SEASON TO BE JOLLY

If you have been reading this column—and I hope you have; I mean I genuinely hope so; I mean it does not profit me one penny whether you read this column or not; I mean I am paid every week by the makers of Marlboro Cigarettes and my emolument is not affected in any way by the number of people who read or fail to read this column—an act of generosity perfectly characteristic of the makers of Marlboro, you would say if you knew them as I do; I mean here are tobaccoists gray at the temples and full of honors who approach their art as eagerly, as dewy-eyed as the youngest of practitioners; I mean the purpose of the Marlboro makers is simply to put the best of all possible filters behind the best of all possible tobaccos and then go, heads high, into the market place with their wares, confident that the inborn sense of right and wrong, of good and bad, of worthy and unworthy, which is the natural instinct of every American, will result in a modest return to themselves for their long hours and dedicated labors—not, let me hasten to add, that money is of first importance to the makers of Marlboro; all these simple men require is plain, wholesome food, plenty of Marlboros, and the knowledge that they have scattered a bit of sunshine into the lives of smokers everywhere; if, I say, you have been reading this column, you may remember that last week we started to discuss Christmas gifts.



We agreed, of course, to give cartons of Marlboro to all our friends and also to as many total strangers as possible. Today let us look into some other welcome gifts.

Do you know someone who is interested in American history? If so, he will surely appreciate a statuette of Millard Fillmore with a clock in the stomach. (Mr. Fillmore, incidentally, was the only American president with a clock in the stomach. James K. Polk had a stem-winder in his head, and William Henry Harrison chimed the quarter-hour, but only Mr. Fillmore, of all our chief executives, had a clock in the stomach. Franklin Pierce had a sweep second hand and Zachary Taylor had seventeen jewels, but, I repeat, Mr. Fillmore and Mr. Fillmore alone had a clock in the stomach. Some say that Mr. Fillmore was also the first president with power steering, but most historians assign this distinction to Chester A. Arthur. However, it has been established beyond doubt that Mr. Fillmore was the first president with a thermostat. Small wonder they called him Old Hickory!)

But I digress. To get back to welcome and unusual Christmas gifts, here's one that's sure to please—a gift certificate from the American Chiropractic Society. Accompanying each certificate is this winsome little poem:

Merry Christmas, Happy New Year,  
Joyous sacro-iliac!  
May your spine forever shine,  
Blessings on your aching back.  
May your lumbar ne'er grow number,  
May your backbone ne'er dislodge,  
May your caudal never dawdle,  
Joyeux Noel! Heureux massage!

© 1963 Max Shulman

\* \* \*

The makers of Marlboro, who take pleasure in bringing you this column throughout the school year, would like to join with Old Max in extending greetings of the season.

## Kappa Sig Takes First in IFC Bridge Tourney

The annual IFC Bridge Tournament was held in the Student Union Ballroom on Wednesday, November 20. A total of eleven houses were represented in competition for the traveling trophy.

The team representing Kappa Sigma, composed of Jack Langton, Rich Martin, Ed Kopaskie, and Eric Norman, won the tournament by compiling a total of 15 points. Second place was taken by Phi Kappa Theta with 13½ points. In third place was Sigma Nu with 12 points, and Kappa Alpha was fourth with 11½ points.

This year's tournament was considered to be a large success as was evident by the spirit and enthusiasm expressed by the teams. Now is the time to start practicing for next year's tournament in hopes of winning the traveling trophy from Kappa Sigma.

## Registration Rules Should Be Followed

(Continued From Page 1)  
taking any Special Problem courses in which no definite meeting time is arranged, please indicate the name of the instructor in the space for the time on the schedule card.

6. GRADUATE STUDENTS ONLY: If you are enrolled for zero hours credit in a 490 course it will be necessary for your advisor to furnish the equivalent hours of credit. The equivalent credit hours for the course should be written on the right side of the schedule card and also on the same line by your advisor.

7. Your schedule card and credit card must be returned to the Registrar's Office during preregistration week. If you are eligible and plan at this time to pay your fees early please inform the Registrar's Office.

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FREE PARKING



# MSM to Have Radio Station

KMSM-FM, after many delays, is going on the air. The exact date will be announced soon. The broadcast hours will initially be from 7 to 11 p. m., seven days a week. After gaining experience, present plans call for an expanded broadcast schedule. KMSM will be on the air during the normal school sessions. It will not broadcast during summer session or during Christmas or semester break.

The aim of KMSM programs is to provide quality programming in both the music and educational broadcast fields. Since KMSM is licensed as an educational station, it is required to devote a substantial section of its broadcast time to educational programs. Present schedules call for 25% educational programs.

## History

Early last year the student council submitted a report to Dean Wilson suggesting that a student operated FM radio station be established on campus. This recommendation was approved last spring by the School, the President of Missouri University, and the Board of Curators.

On April 23, 1963, shortly after approval was received, equipment bids were sent to prospective bidders. Gates Radio and Showme Electronics obtained the major part of the order.

At the same time the bids were being processed, the managing staff was selected. They are: Dale Marshall, station manager; Mike Devaney, business manager; Wayne Huckabee, musical program director; and Jerry Kettler, educational program director.



Ken Bowles, one of the announcers, practicing for the opening broadcast.

# KMSM-FM



Pictured above is part of the console. — Gates Equipment.

The faculty advisors to the station are Prof. Wells Leitner and Mr. David Oakley.

During the summer and early this semester the studios were constructed in the back of the old cafeteria, near the tennis courts. Early in October, after the construction permit was received from the F. C. C., the equipment was installed in the studios.

A test broadcast was held on November 17, 1963, at 1:00 a. m. At that time, a survey of Rolla was made to check broadcast quality and range. The test verified the frequency at 88.5 megacycles and a range of over five miles in all directions. The frequency of 88.5 mc is close to channel 6 on televisions and with proper tuning KMSM can be received on most TV sets.

On November 27, 28, 29, 1963, the final transmitter tests were made for the F. C. C. When license application verification is received from the F. C. C. in Washington, D. C., KMSM-FM will go on the air.

## Programming

The four hours of nightly programming will be divided during the week between 25% educational and 75% music. On Saturday and Sunday the programs will be devoted primarily to music except for occasional sports events. The music programming throughout the week is divided into 40% easy listening, 20% jazz, and 15% classics which makes up 75% a week. There will be no "rock n' roll."

The aim of the musical programming is to present good music and a relaxing atmosphere, with the emphasis on music to study by. Interest will range from folk music, thru jazz, easy listening, and into deep classics. Musical programs will present nearly continuous music, with little useless DJ chatter and with no commercials.

Since KMSM is a noncommercial station, it is not permitted to broadcast any commercials.

It would be impossible to present a series of educational programs that would interest all listeners. Thus, the aim of the educational programming is to be present programs of both general and specialized interest. The main portion of the programs will be news, sports, news analysis, and non technical features. Some programs on science and engineering will also be included.

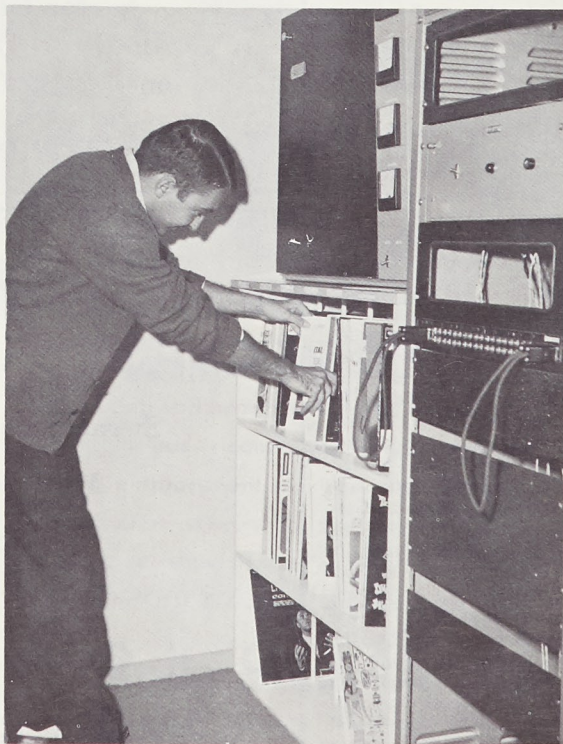
Each evening a fifteen minute news program will be presented at 7:00 p. m. It will include campus news, campus and town announcements, and news analysis. Announcement forms can be obtained at the Student Union or

Rolla Chamber of Commerce office, and submitted at the same locations. No personal or commercial announcements can be broadcast.

From 7:15 to 8:30 Monday thru Friday, various educational programs will be broadcast. Some of these are: World Report from AFL-CIO, United Nations News, Call from London (from BBC), sports scores and features, Investors Roundtable from the New York Stock Exchange, Mirror to the Mind from the AMA, The Educated Imagination from Canada, law, economics, and panel discussions, and interviews, including campus organization reports. Many news specials will be included from the national news magazines *Time*, *Newsweek* and *Fortune*. A special series on industrial employment opportunities and industrial projects is being developed.

Anyone with suggestions for additional educational programs is asked to contact the educational program director.

A complete schedule of programs will be published weekly in the *Miner*.



Wayne Huckabee, musical program director, selecting appropriate albums.





## Metallurgy Professor Views Humanities Dept.

When asked his views concerning the possible improvement of the humanities department, Dr. Eppelsheimer, head of the Metallurgy Department, gave the following ideas.

It would be of major benefit to the students to expand and improve the humanities department. According to Dr. Eppelsheimer, there are two prime advantages in obtaining a substantial background in the field of humanities. Such a background would qualify a student for a better position in industry, and allow him to broaden his scope of knowledge to include areas other than those purely scientific.

A job offering depends to a great extent on the impression the applicant makes on the interviewer. A good working knowledge of the different phases of the humanities would enable the individual, during the interview, to converse more intelligently about industry and the world in general. Besides developing a person's outlook on life, it might also develop latent abilities and interests that would otherwise have remained dormant. It would also help to convince the interviewer of his growth potential in management. This is a factor that every interviewer seeks in a prospective employee.

Furthermore, a student's interest in humanities and related fields indicates to a certain extent, his maturity. It can develop his tolerance and respect for the arts and for interests other than his own. This tends to make the individual a well-rounded person and gives him a much better chance to succeed. A knowledge of humanities deepens one's sophistication.

Besides these advantages obtained through a good humanities background, we must realize that the engineers of today must be "Engineers of the World." To cite one example of this, the metallurgists have an international society that compiles a journal written in many different languages, including English, German, Russian, and French. This illustrates how advantageous it would be for an engineer to possess a knowledge of a foreign language. By learning a foreign language, the person will, at the same time, be learning about the country itself, its culture, its religion, etc. The engineer may find at one time in his life that he will be working with persons from a different country. A knowledge of their language and country will help him in his dealings with these

people. An engineer will be in a better position to communicate his thoughts to these people if he knows something of their customs and manner of thinking.

Dr. Eppelsheimer feels that with the expansion of the Student Union Building, a music room

could be built. It could be arranged so that there would be complete privacy from outside disturbances. He also feels that a class in music appreciation would be most rewarding to anyone who would take it.

For the benefit of the student who plans to become an engineer, a sound knowledge of the different aspects of humanities will be invaluable in his later years. The student will use the knowledge he has gained from these courses in every field of endeavor.

## Directory Listing Summer Jobs Available

A directory listing 35,000 summer jobs throughout the United States is now available to college students. Consequently, students can begin their summer plans during the Christmas vacation.

The 1964 "Summer Employment Directory" gives the names and addresses of 1,600 organizations which desire to employ college students. It also gives positions open, salaries, and suggestions on how to apply.

The various jobs are to be found at summer camps, resorts,

with various departments of the government, and in business and industry. National parks, ranches, and summer theatres listed also need college students.

Students wishing summer work apply directly to the employers, who are included in the directory at their own request.

The "Summer Employment Directory" may be obtained at the bookstore or for \$3.00 from the National Directory Service, Dept. C, Box 32065, Cincinnati, Ohio 45232.

## Baseball Likely at MSM, Soccer Presents Problems

The prospects for a baseball team at MSM are rapidly improving. According to Coach Gale Bullman, the MIAA Conference has tentative plans for competitive baseball to begin in two years.

In accordance with these plans, he said, work has proceeded on a baseball field here, adjacent to the present intramural fields. So far, the whole field has been graded, and the infield has been covered with topsoil.

In the near future, possibly next spring, there is a possibility of general tryouts. These practices will be open to freshmen and sophomores and will be designed to let the coaching staff see as many prospects as possible.

Concerning the likelihood of forming a soccer squad at MSM, Coach Bullman had this to say, "a soccer team at MSM presents numerous problems. For example, officials would have to be hired in St. Louis; the team would have to practice almost daily to stay in proper playing condition—this is an impractical situation because of the scholastic load and the lack of practice space; there would be no soccer teams in the area of the same caliber—thus, a travel problem; finally, the school has no adequate fields for soccer, since the present intramural fields may soon become part of a new athletic field." Hence, at least for the present, MSM will not have a soccer team.

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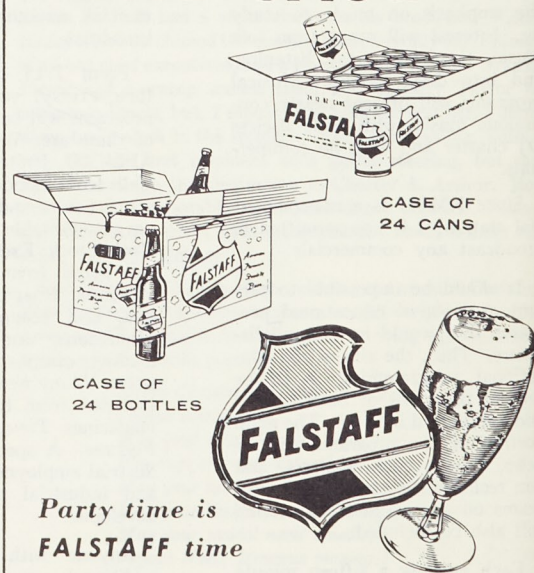
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## Miner Five Scrubs Evangel 78-66, in Season's First Triumph

Coach Dewey Allgood's five started off the season in fine style Monday night as they romped over Evangel College, 78-66. This contest marked the beginning of a twenty game basketball schedule for the Miners, including ten MIAA conference duels.

Three Miners scored in double figures, and a total of ten players had all of the scoring for MSM. Martin Howard and Ralph Farber totaled 17 points apiece to lead the Silver and Gold, and sophomore Jack Hornbuckle tallied 10. Howard also pulled in 16 rebounds to lead the Miners in that field.

Peck, Husong, and Cook paced the Evangel squad with 19, 18, and 17 points, respectively. Campbell scored 11 to round out the Evangel double figure scorers.

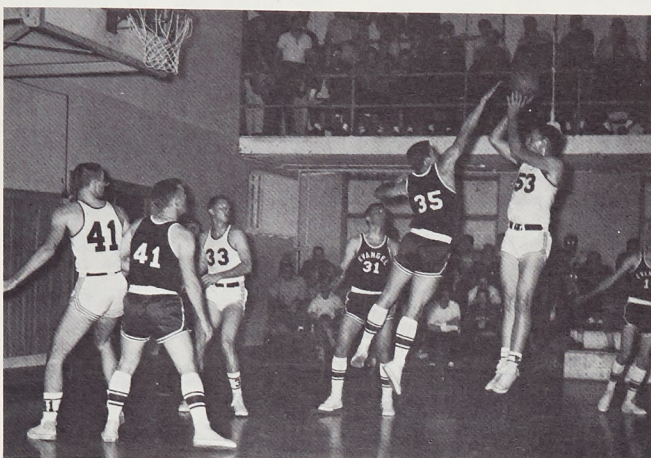
MSM held a first half lead of four points over their opponents, and went on to win by a margin of 12. A free throw percentage of 67% for the Miners was one of the deciding factors of this contest. The Miner quintet hit 16 out of 20, while their adversaries

sank 12 of 18 attempted for 67%.

Coach Allgood commented that his squad looked good, for the first game of the 1963-64 season. The scoring was even, and the team played like a winning ball

club.

Saturday, December 7, the Miners travel to Principia for a battle, and on December 12, John Brown University pays the MSM campus a visit.



Bob Richner makes two for the Miners. Roger Herzot and Jack Hornbuckle jockey for position under the basket.

## All Conference Football Squads Picked by MIAA

Predictions mentioned that this year's MIAA football circuit would show a strong crop of sophomores, and this has proven to be a fact with the selection of our sophs to the MIAA All Conference First Squad. Sixty-seven men were balloted on in the heavy competition for all conference positions. Three seniors, four juniors, and four sophomores, comprise the top eleven, picked by the conference coaches.

The Missouri Miners were well represented on the second team with four Miners on the roster. Seniors Kent Smith, Charley Biggs, and Gary Couse were named to the second string, along with junior Bob Keiser.

Four men were selected for the second or as in one case, third time. Kirksville's Dave Grant was named for the third consecutive year, and was the only unanimous choice of the coaches. In recognition of that honor, Grant has been designated as Captain of this year's first squad. Richard Johannmeier, Eldo Perry, and Mike Richardson are all enjoying a second year on the team.

The annual Missouri Intercollegiate Athletic Association Conference Football Sportsmanship Award was given to Springfield senior Charles Wade. Wade makes his home in Springfield, Missouri. Lonny Irvin of the Maryville team missed a tie for the award by an extremely narrow margin of only one point.

In selecting the outstanding sportsman, game officials are asked to select a man from each MIAA team in every game that they compete. The home management is also asked to pick a player from the team of the opposing school in each conference game played. A member of the local press, or Radio, is requested to se-

lect a sportsman from the visiting MIAA team. This year, 47 men received votes as outstanding sportsmen.

Gary Couse led the Miners in the balloting; Gary Lynch led Cape; Shane Cavanah, Kirksville; and James Every, Warrensburg.

This award, which has become very popular with the MIAA athletes, has, in the minds of veteran conference observers, contributed significantly to the high type of competition athletics played in the MIAA Conference.

### MIAA ALL CONFERENCE FOOTBALL TEAMS

#### First Squad

Randy Jones, Kirksville, Sr. .... E  
Ronald Boyer, Springfield, Sr. .... E  
David Grant, Kirksville, Jr. .... T  
(Capt.)

(Continued on Page 12)

### Missouri Miners

| Name       | FG | FT | F  | TPs. |
|------------|----|----|----|------|
| Howard     | 7  | 3  | 0  | 17   |
| Hornbuckle | 4  | 2  | 1  | 10   |
| Mitchell   | 3  | 3  | 1  | 9    |
| Reichert   | 1  | 0  | 1  | 2    |
| Richner    | 4  | 0  | 5  | 8    |
| Farber     | 5  | 7  | 4  | 17   |
| Murrell    | 1  | 0  | 1  | 2    |
| Wampler    | 4  | 1  | 1  | 9    |
| Wallace    | 1  | 0  | 0  | 2    |
| Hugerich   | 1  | 0  | 0  | 2    |
| TOTALS     | 31 | 16 | 15 | 78   |

### Evangel College

| Name     | FG | FT | F  | TPs. |
|----------|----|----|----|------|
| Peck     | 7  | 5  | 4  | 19   |
| Cook     | 8  | 1  | 0  | 17   |
| Husong   | 7  | 4  | 3  | 18   |
| Campbell | 5  | 1  | 2  | 11   |
| White    | 0  | 0  | 3  | 0    |
| Clark    | 0  | 1  | 2  | 1    |
| TOTALS   | 27 | 12 | 25 | 66   |

### Missouri Miners

VS.

John Brown U.  
December 12, 1963

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## Cape, Kirksville, and CMS Picked to Lead MIAA Play

The 1963-64 MIAA Conference basketball race will be closer than ever once again, as the pre-season predictors see an outcome similar to that of last year's. Cape Girardeau, Kirksville, and Warrensburg are to be the top squads out of the six schools belonging to the Missouri Intercollegiate Athletic Association. This is the order in which these three finished in last year's play, with Maryville coming in fourth, Springfield fifth, and the Missouri Miners sixth.

All of the MIAA teams lost heavily through graduation, and it is expected that some will have difficulty in filling the shoes of those lettermen. Cape lost 4 mainstays, and with them went 1140 of their 2014 total points of last year. The Indians had two men on the 1962-63 All Conference Team (first squad), but both will be missing from the lineup this season. Don Ringstaff, a member of the All Conference Second Squad, will be returning to the court. Coach Charles Parsley will be expecting a lot from him, and also Paul Ranson, who scored 258 points in last year's action.

Kirksville is the team to watch, and Coach Boyd King's men will be a very definite threat to the conference title. The Bulldogs came on strong last season with a record of 7 wins and 3 losses in MIAA action, and an overall record of 16-7. Sophomore Lester Selva will once again be the top gun, with Jerry Germain and Wayne Clinton also in there fighting. Selva made the top five in last year's All Conference Team.

The Red and Black of Central Missouri State at Warrensburg tied with Kirksville for second in the finals of 1962-63, and the Mules are predicted to shake the third spot this year. The Warrensburg squad lost 49% of their offense, and 860 points out of a

total of 1748. Also gone is Gordon McFarland and 443 of last season's tallies. Bud Vallino, a 6' 4" senior from Edwardsville, Illinois, and a member of the All Conference Team, will be back, and so will Bob Caine. The Mule roster includes 22 new men.

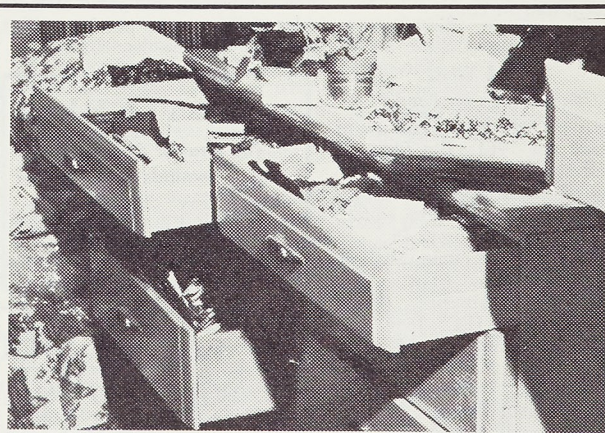
The Maryville Bearcats lost an unbelievable 98% of their offense. This includes 1601 of a total 1639 points scored last season. Coach Buckridge will be missing six lettermen, including Roger Voss, an outstanding All Conference pick of last year.

Springfield can be considered the dark horse of the 1963-64 loop. The Bears could sweep up and take the place of any of the top three squads if any one of them makes a slip. Eddie Matthews, mentor of the SMS Five, has his strongest freshmen group in many years, and if they could jell, the Bears could go far.

Coach Dewey Allgood, in his fourteenth year as head basketball coach of MSM, has seven returning lettermen. The loss of Norman Schuchman and Jim Good, both All Conference Selections, will be hard to make up. Ralph Farber will be returning to the lineup and along with Martin Howard, will be the nucleus of the club. Farber scored 253 points this past year, and hit 65 out of 87 attempted free throws. Howard scored 293 points, and pulled in 174 rebounds.

All six quintets will be in action during the 1963-64 MIAA Christmas Tournament, December 19-21. Southern Illinois University and Arkansas Tech will be the guests this year, and they can be expected to provide some very exciting action.

The MIAA champ will once again qualify for the NCAA College Division Regional on March 6-7, 1964. The Regional winner will report to Evansville, Indiana, later that month for the finals of the College Division meet.



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## SIDELINES

By Bruce T. Gregg

Intramural Basketball is now in full swing and one can certainly tell it by watching the games being played. Some of the players not only play their hearts out but their patience as well. It is a good thing to get out on the court and do your very best, but when things don't go just right, one must keep a level head. Due consideration must be paid to sportsmanship. This seems to be lacking lately in a few of our games. Remember that old saying, "It's not if you win or lose, it's how you play the game." This might be hard to understand but it holds some worth even if it doesn't hold much consolation in defeat. True one might not come out on top, but if not, practice this golden rule of sports or one of the main objectives of Intramural competition is defeated.

A team knows when an opponent is trying to get away with something, so they will try the same thing plus a little more, and before long the game begins to get rough. It must be realized that a game can be hard fought within the rules of the sport and with courtesy.

With this in mind when you go into your next game keep in mind the rules of Good Sportsmanship and play a clean but hard fought game.

### NEWS OF THE WEEK

(Continued From Page 2)

**the election illegal due to a lack of voters.** Retiring President Romulo Betancourt is very anti-Castro.

**Canada:** A plane crash near Toronto took the lives of 118 persons in the worst air disaster in Canadian history. The DC-8 jetliner crashed in a driving hail storm just four minutes after take off.

**Wall Street:** The stock market made a smashing comeback after last week's slump due to the death of President Kennedy. The gains, which more than recovered these losses, are believed to be the greatest advance in recent history.

**Rail Dispute:** A board of Federal arbitrators ruled that 90% of the firemen's jobs on diesel yard engines and freight trains should be eliminated in answer to a work rules dispute with the unions. The board was set up by Congress last August; and their decision is to be binding; however, a spokesman for the unions said the decision would be contested in court.

### WHO'S WHO

(Continued From Page 1)

Ricketts, Theta Tau freshman of the year for 1961; Jim Philpott, president of SAE; Jim Boeger, vice-president of ASME; Bill Farrell, MINER circulation editor; Jim McHugh, Tau Beta Pi.

Others were, Lonnie Shalton, IFC member and Theta Tau pledgemaster; Maurice Green, treasurer of the IFC; Joey Tuttle; Glenn Rahmoeller; Bernard Ebert; Tom Hamilton; Jerry Davis; Ron Oglesbee; Mark Morris; Eugene Roeder; Richard Dagley; Donald Schoonover; and Jerry Johnson.

Nominations for listings in WHO'S WHO are made by the Student Council and the faculty, and are approved by the editors of the national publication. Criteria for nomination include scholarship, leadership, participation in extracurricular activities, general citizenship, and promises of future usefulness as a citizen. The number of nominations a college may make is based on a percentage of its enrollment.

WHO'S WHO was originally created in 1934 to fulfill a need for a national basis of recognition for college students who had demonstrated outstanding effort and achievement on their individual campuses.

## Student Union Board Lacks Only Facilities

The MSM Student Union Board attended the Region 8 Conference for College Unions, at Missouri University, on the 2 and 3 of November. This was the 11th annual conference for the region, and was attended by 273 delegates from 30 schools, representing Missouri, Iowa, Kansas, and Nebraska.

The conference provided an excellent opportunity for the Board to compare the MSM Student Union with the Unions of other school. They found that our Union's program was excellent when compared with schools of our size, and in fact, was more on par with the programs of School twice or three times the size of MSM. The only lack they found was in physical facilities which will be corrected with our Student Union Expansion Program.

Many new ideas for Student Union programs were obtained at the conference, and some of these ideas will soon be put into effect at the MSM Student Union.

### NOTICE!

The Traffic Safety Committee reminds students to report any change in license number to the office of Traffic Safety, T-7.

## Gin Rummy Tournament To Continue

Another well planned tournament is in progress at the Student Union on the MSM campus. The Gin Rummy Tournament has been in temporary recess since the commencement of the first round on November 27. There are four rounds planned, and a final round after the conclusion of the four rounds. Since the first round has been completed, the second round will be held on December 4, the third round on December 9, and the fourth round will take place December 11. On December 12, the final round will become history and the victor determined.

Considerable time has been spent once more in preparing a tournament suitable for our particular limitation. The game will proceed in accordance with the established style known as Oklahoma Gin. Each game will be allotted forty-five minutes for termination. In the four preliminary rounds, 200 points are required to win the match. The final round will require 250 points for victory. References on the regulations and rules for the games will be obtained by conferring with a rule book at the candy counter in the Student Union.

### ALL CONFERENCE SQUAD

(Continued From Page 11)

Richard Johannmeier, Springfield, Sr. .... T  
Eldo Perry, Springfield, Jr. .... G  
Joseph Critchlow, Cape, Jr. .... G  
Wallace Dawson, Springfield, So. .... C  
Leo Pappas, Maryville, So. .... B  
Mike Richardson, Kirksville, So. .... B  
Cornelius Perry, Springfield, So. .... B  
Norman Dockins, Cape, Jr. .... B

### Second Squad

Paul Owens, Cape, Sr. .... E  
Ronald Young, Springfield, Jr. .... E  
Kenneth Smith, MSM, Sr. .... T  
Paul Krebs, Springfield, Jr. .... T  
Robert Keiser, MSM, Jr. .... G  
Larry Ayers, Springfield, Sr. .... G  
Charles Riggs, MSM, Sr. .... C  
Edward Willard, Springfield, Sr. .... B  
Gary Couse, MSM, Sr. .... B  
Gary Lynch, Cape, Sr. .... B  
Ted Michaels, Kirksville, Sr. .... B

## Cal Tech Emphasizes Well-Rounded Engineer

The California Institute of Technology's Engineering curricula is basically of a general character, with a minimum of specialization in the separate branches of engineering. It includes an unusually thorough training in the basic sciences of physics, chemistry, and mathematics, as well as the professional subjects common to all branches of engineering. With a few exceptions, the student does not concentrate in his chosen field until the fourth year. By eliminating the more narrowly particularized subjects, more time is available for the engineering course to include a large proportion of cultural studies. It is hoped that such a curriculum will provide a combination of the fundamental scientific training with a broad human outlook. This is, in fact, the type of collegiate education endorsed by leading engineers—a training which avoids technical narrowness on the one hand and broad superficiality on the other.

Their program in science affords instruction in French, German, and Russian, with the object of giving the student sufficient reading knowledge to follow the scientific and technical literature of those languages. The science course includes the same proportion of cultural studies as the engineering course, and for the same reason—to enlarge the student's mental horizon beyond the limits of his immediate professional interest and thus better qualify him to realize his opportunities and fulfill his responsibilities as a citizen.

The inclusion in the curriculum of a large proportion of non-scientific and non-technical subjects is one of the fundamental elements in the Institute's educational policy. Under the general designation of humanities is included literature and composition, history and government, economics, philosophy, and psychology. To them the student devotes about one-fourth of his time during his undergraduate years. Formal instruction in the humanities is supplemented by lectures by and opportunities for contact with distinguished scholars who are attracted to Pasadena by the opportunities for research at the Huntington Library and Art Gallery. In addition to these academic and semi-academic pursuits, the Institute encourages a reasonable participation in student activities of a social, literary, or artistic nature, such as student publications, debating, dramatics, and music. In short, every effort is made in the undergraduate section of the Institute to carry on a well-rounded, well-integrated program which will not only give the student sound training in his professional field but also develop character, breadth of view, general culture, and physical well-being.

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